SEQUENCE LISTING

<110> Brandt, Kevin S.
       Gaines, Patrick J.
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       Wisnewski, Nancy

<120> FLEA HEAD, NERVE CORD, HINDGUT AND MALPIGHIAN TUBULE NUCLEIC ACID
       MOLECULES, PROTEINS AND USES THEREOF

<130> FC-8-C3

<140> not yet assigned
<141> 2003-07-17

<150> 60/319,414
<151> 2002-07-22

<160> 2313

<170> PatentIn version 3.2

<210> 1
<211> 549
<212> DNA
<213> Ctenocephalides felis

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gtaattccag gaggtcgata tggaaaacac aactacaaag gaaaacagcc tgagaaaaat   180

acaatatagg aacccggcag ctattaacta ttatgaccac aaagatggag ccaaaatagt   240

taagtcatca cacttcgaat tagattacat gttaggaaga aaaatcacat tcttctgcat   300

ggctcaagga ttaccgcgac cttcaataac ttggtttaag gatggagttg agttatttca   360

tcatcgattt ttccaagttc atgaatggcc atgggaaatg atactttgaa atctaaaatg   420

gaaatcgatc ctacgaccca aaaagatgca ggatattacg aatgctggca gacaatcaat   480

atgcaataga tagacgagga tttcgacaga ttacgactga ttgttattaa atattcatat   540

tgatatatg   549

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<213> Ctenocephalides felis

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ttaattatat ttttaatttt atattttgt tttaattata taatatttga gaattatttt   120

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tgtaattttt atattgtatt tacagtatgt gaaggggttt taggccttttc tattttagtt        180

gcaataattc cgtactcatg gtaatgatta ttttaaaaga tttaatataa tacaatgtta        240

aaatttttaa taataatatt ttttataatc cctattattt tattaaaaaa ttgttattga        300

ttggttcaaa caatattatt tataatatta tttatttata taattttagg aataaaaaga        360

attataattg ttaatattag attaaatttt ggttatgata ttatatctta tagattgaat        420

ttattaagga tttgaattat tattttaata ttaatagcat caattttaat ttataaaaat        480

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aagatggtnt tactccatca caaatctggt gttntcttaa gggattctca tggggtcgcc        180

caagttcgat ttgtcagtgg caacaaaatc ttgcgtatca tgaaagccat gggagtagcc        240

cctgaattac ctgaagattt atactatttg atcaagaagg ctgtagctat ccgcangcat        300
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ttggaaagga accgcnagga caaagacagc aaattccgtt tgattcttga gaatccagaa      360

ttcacagact tgcccgttac tacaaaacaa agagcatctt ggacccaact ggaaatacga      420

atccagcact gatctgactt gtagctaaga tgttaatgaa tgtgaagtta tatantaaat      480

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<210>    4
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caaatgccat ctgacaaaac tattggaggc ggtgatgact ctttcaacac ctttttcagt      180

gagacagggg caggcaagca tgtgccacga gctgtctttg ttgatttgga accaactgtt      240

gtagatgagg tccgcactgg aacataccgt caattattcc acccagaaca actgattact      300

ggcaaggaag atgctgccaa caattatgca cgtggtcact acacaattgg caaagaaatc      360

gttgatgttg tattggcaga attcgaaatt gctgatcaat gcactgtctg caaggtttct      420

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gctat                                                                  485


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tcatacttaa aatagttacc ctttttaatt tttacagtat ttaaatttaa tagttggtat      180

agtattttat aaattttaat ttgaagcatt cctttatagg tttggaaatt atatttttac      240

aaaaaaaaat aacccgtcca attgatttta aacaaaacca taaaaaacta ggtgctatag      300

taaacagcat ttgatttgat gtatacattg cattgaaatg agtggagaag caagatgaaa      360

gcctatccat taatgactta agacttttta gaaatgtttt atatatacat atgtatgcta      420

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gaatatccga atatccgaat atncgaatat ccgaatatcc gaatatncga atatccgaat   180

atccgaatat ccgaatat   198

<210> 8
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<213> Ctenocephalides felis

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atgcaattca caacaaccac gaccaaaacg cgtaaagtga agaagtcgtc caagaggcgc   120

gaatctagcg accatggtga agttactatt acagagatgg agaacggaca ccaacagcaa   180

ggtggcgagt acaccaaggc catgaacaag gactggcact ctggtcactt ctgctgctgg   240

caatgcgacg agtcactgac cggccaacgc tacgtactcc gcgacgaaca tccttactgc   300

atcaagtgct acgagagcgt ctttttccaac acctgcgagg aatgcagcaa gatcattggc   360

attgattcca aggacttatc ttacaaagaa aagcattggc atgaggcatg tttcttgtgc   420

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agtaaatgcc gcgttcttcg tcgtaacagt tcggaagtaa tggacaaatt actgnggaac      480

tgtat                                                                   485


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<213>  Ctenocephalides felis

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gccaaattag tccaagatgt agctaataac accaatgaag aagctggtga tggtactact      120

actgctactg tgcttgccag agctattgca aaggaaggct ttgaaaaaat atctaaagga      180

gcaaatccca ttgaaatcag acgaggtgtt atgctggctg ttgatgcagt caaagaatct      240

ttgaaaggaa tgtcgaagcc tgttactacc ccggaggaaa ttgcacaagt tgctaccatt      300

tctgccaatg gagacaaagc tattggaaaa ttgatctcag atgcaatgaa gcgtgttgga      360

aaggaaggtg taataacggt taaagatgga aaaactttac atgatgaact tgaggtcatt      420

gagggcatga agtttgatag aggatcattt caccttactt tatgaattcc agcaaaggtg      480

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<212>  DNA
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<223>  n = unknown at position 513

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ggaacaattg gaagaggaaa agaaaatttc tctgtccttc cgtatcaagc ctctggatat    180

cgaatctctt agcgttgaaa aactcanaca aaaggccaat gaactttggg aatgcatcgt    240

caagttggaa actgagaaat acgatctgga ggaacgccaa aaacgccagg actacgatct    300

taaagaattg aaagaaaggc agaaacaaca actcagacac aaagcattga agaaaggatt    360

ggatccagaa gccctcacag gaaaatccca cccaaaatcc aagtcgctcc aaatatgaga    420

gacgtgtcgc acaagatcat atgatgataa gaaaaaatta tttgaaggcg gttcgcacat    480

tgtctctgaa gtaatgaaaa gtctggaaca gcntncaact attcagaaac gtagtaaact    540

agcttctaa                                                           549
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<212>  DNA
<213>  Ctenocephalides felis

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ccagttagcg tactggttgg cgctgat                                        87
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<210>  12
<211>  268
<212>  DNA
<213>  Ctenocephalides felis


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tttttgttaa aatatattat ttttgtctgt cccaaacgaa tgattttcct gcggccctgc    180

ctgttgcaga tattcctaca cacgttatta taagtcacgc tgtttgcgcg ccgtagcaat    240

tacgcgcccc gttcgcgccg ttcgttgt                                       268
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<210>  13
<211>  436
<212>  DNA
<213>  Ctenocephalides felis

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attagtataa tataatttat tgataatatt aaattgttag gtttatttaa ggaattcggc    120

aaatataata ttcacctgtt taacaaaaac atgtcttttt gaaaataata taaagtctaa    180

tctgcccatt gaagatttaa aaggccgcag taatttgact gtgcaaaggt agcataatca    240

atagtttttt aattgaaagc tggaatgaat gattgaatga aatattaact gtcttaataa    300

aattgttata gaatttaatt tttatgttaa aaagcgtaaa tattattaaa ggacgagaag    360

acccctttaaa gttttatata taaatataga ttattttaag aatattatta aatttattta    420

tattaatata tttatt                                                    436
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<213>   Ctenocephalides felis

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aaccttctac tttcagtgct gatgtatcct ttatctatat atatgcaatt agcaattgta    120

taatttatat ataaatgtgt atactttcgt aggttatggt agcgcatttc cacattatcc    180

aattttaagt tcacaaaagt ctctaatgta agtcgtgtct tgtgtgtttc gtagagaatt    240

tagtcggaca attgtaaaat gtcaaataga cttgtaaaag acaaagttat gtagtggttc    300

taaagtagtg atattgtgtc gagt                                           324
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<212>   DNA
<213>   Ctenocephalides felis


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tccacaggct tccattccca agaatgatgg ctggaagaga gcttctgggc acctgaacct    120

ttcatttcca atggtgatga cttgtccgtc aggaagttcg tatgattttt ctaaagatga    180

agagctggca gcggtggcca tttcttgttc gaagtccaaa gctacatagc acaatttttc    240

tttaatatca cggacaattt ctctttcggc agtagtggtg aaggagtatc cacgttcagt    300

taagattttc attaaataat cagttaagtc acgggcagcc aagtccaaac gcaagataac    360

gtgagggaag gcgtatcctt catanattgg t                                   391
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<212>   DNA
<213>   Ctenocephalides felis


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<222>   (162)..(162)
<223>   n = unknown at position 162

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<222>   (178)..(178)
<223>   n = unknown at position 178

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ccnctttaaa cnttcccgaa aattcaccaa ccaagggacc anggcccaat tggggggnaa     180

ancncaacta tgtcatcaaa agtgatattg ccattgtgtt taatgttctt ttgcttcttg    .240

cggtcacnag ggggttcctt caatgcttta ataactaaag aggcanctga aggtactact     300

gaaattgttg cttgcctgtt ttggatggac aattgaacag tnattttcaa acccttccaa     360

tccccggtag ccttagcaat atcatcacca actttctttg ganacagacc aatggaccaa     420

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<222>  (486)..(486)
<223>  n = unknown at position 486

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cagttacatc ataatcatat tgttcaccaa gataacgagc acgagctttg aattcatcac     120

gggggttgac ttttccactg tcgatgtctt ctgcgaggcc atcaggcata ggttgtgcct     180

tcatgaataa tctgttgtgc ttgtttggag atttagacaa gcacatttgg tctgattctt     240

cagatacagt ttctctgtaa gatacaacag ggtcagattt ctttaatgga atgcaagcat     300
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ggtcttcttc caaatctttc aagcaaattt ccaagtgcaa ttcaccggca ccagcaatga    360

tgtgttcacc agattcttca atgatacatt ggaccatang atctgattta accagacgtt    420

tcaaaccttc taccaatttt ggcagatnag caaggttttt angttcaaca gcaacacgca    480

caacangaga aactgaga                                                  498


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agtgcacaga gctcacatct ttggaaaaca tgtagctgac tacatgaaat ctcttgaaga    180

ggaagatgaa gatgcattca acgtcaatt tagcaaatac atcagtcttg gaattactgc    240

tgataatatt gaagagctat acaagaaagc ccatgcggcc attagagctg atccttcatt    300

gaaacctgca gataaaatga aggcagctga tgtcaaggtg aaacgttgga accgggctaa    360

actttcactc tctgaacgca agaatcgcgt tgcccaaaag aaagcttcat ggcttcagaa    420

gctcaaagca gagaatgagg cataaatgac ttctaaatat ataaatgttt atattacttt    480

gaaataaacc ggtaaaat                                                  498


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<212>    DNA
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atcacttgca cacatcctta aattatgaag aacttagttg aacaaaccga agcccatatc    120

atcatcggac tcctctggtt cagattcctt cttcttttcc tccttagcag cagcagctgg    180

tgctgcagct ccaccggcag cagcaggggc agcggctgct ggtccggatc caactcctga    240

accgatgttg gtgatcaggt cttttacgtt tactccttcc aaagccttgg cgaacaatcc    300

tggccagtat ggctcaacat cgacagctgc agctttcaag atggtagaga tcttctcacc    360

agttacagca acatcatcgt caaccaatat cagagcggag taaacgcaag cgagttcagc    420

ttttgtggcc attttttatat atatttgaaa taacttttgg tgcaagtcgc cgaaatttgg    480

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tgccatgaaa cgcagttgtg ttggaatttg gtcttgcaaa agatgtaaaa gaactgtagc   180

tggtggtgcc tgggtatata ccacaactgc tgctgcctct gtccgatctg ctgttaggag   240

gttgagagaa acaaaggaac agtaatttat attgatctta ataaataatt aataaaaaaa   300

aaaaaaaaaa aaaaaaaaaa a   321

<210> 21
<211> 404
<212> DNA
<213> Ctenocephalides felis

<400> 21
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acaaatatga ttcaggaaat tcaaatgtta cctcacgtcc tgtcaacttt ttgtaaacgg   120

aagtgaacgt atcaacttta tgttcaattg tagtttgttg acttttgtcc aaatgaactt   180

taatgagctg ggatccatct agcttgacac ggatacgttt accaacaatt tcagctggga   240

atactaagtc ttctaaaata gcatcataca cagatgtcaa agttctgcta cgtggacgct   300

tctgcttatt cttagtgcga gttttacgtg ttggttttgg aaggatttta cgctctccaa   360

caaatacaac atgattgcca gaaaatttct tctccaactc tcgt   404

<210> 22
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<212> DNA
<213> Ctenocephalides felis

<400> 22
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tccaaagcat ttgtctggtg tagcaaaaca tcgtgcccac tccatgggct ttcgtagact   120

tcagatactg cttccattaa agacttggaa gcactttgca cagctctaat acatcttatg   180

tagttattaa attccttttg cagtctatta gcactatttt gctgcctggt gaagtttttgt   240

aaatgctcat caaaaatatc atctgcggt   269

<210> 23
<211> 216

<212> DNA
<213> Ctenocephalides felis

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aacatttagc tgctcatctc taattcaaca aatatttgaa gatacttcaa agaacggaat   120

tgattttcat gttgtggttg tggatggtcg cccatctcta gaaggtagag aaatgctacg   180

cagactcatt gaacgtggta tcaagtgttc ctatgt   216

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<212>   DNA
<213>   Ctenocephalides felis

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ataatcagaa attactatag ttaatgacat tttgtttgtg ctccttacat aaaatacaat   120

tttatacatt ttaattttta tacatatttt ttatatttaa ttgcacagat catttgtgta   180

tttattatat taattgacta ctttatgata atttgaatcc taattagtcn attcaagatt   240

gttttcctgg tttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt   300

gggtatgcat cgcaactccg ttttatcaaa gtgnaagcca tttggacaat cataatgttt   360

tatttgccat ttgttgttaa ccaagaaaca ttgntaatat tttttacaat ctcttcgatc   420

ggaaaaaacg ttttcaacct ttgcacgcag ttctgcccna gaaagatttt gggtcaaacc   480

attcgttgac gtcgtcctca   500

<210> 25
<211> 146
<212> DNA
<213> Ctenocephalides felis

<400> 25
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agcatatttc aaacggttac gtagaaaaat aactaaaggt aaggactcgc gaagtttgtg   120

aggtccagtg gatggccgag gtgcgt   146

<210> 26
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (403)..(403)
<223> n = unknown at position 403

<400> 26
ggccctggac aagatgccct tcgactcacc accgaatatg gagctgtcta cgatcaaaat   60

gccaccattg aagttcttaa taaacagaag aggaaaactt tgtgccacac tgatggcgaa   120

ggagttgaat gcgaaacaga agaagggagc atcgcacctc aaataatact atttgctgcc   180

caattaattt ctggagtcgg tggatcttta tactacactt taggtgtatc ctatatggac   240

gataacacca aaaaatctaa aacaccagca ctgataagtt tttcttattt tcttcgtatg   300

ctcggacctg caaccggtta tgccttggct agcgtctgtc taaagttcta catttcgcca   360

acgttgacgc caacaattga taataatgat cctagatggt tangagcatg gtggttaagt   420

tgggtgatac taggatcaac tttaatattt tttgcaacgt tgattggatt gtttcctaaa   480

attctgccaa gagctgca   498

<210> 27
<211> 489
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (445)..(445)
<223> n = unknown at position 445

<400> 27
aacaatatgt aaccgattcc acactatttt taacagaatt caaaattcgt aattgtcaag   60

aaattatttc atctctacag aatgtttttat gtgatcaaga agtcaagtat attccaaagc   120

```
ggaaatttgg gttcaaaaat aaaaagctct tattaaatga taaaattatt ggtaaggact      180

tggatacaaa aagtaaagat acgacagatt tatgtctcaa taagtgtaat gattggaatt      240

tatcagaatg tggatttcat ttaaaggaga atgaaattct atatctttat gctgaacagg      300

ttaataaaaa ggatattaca ttgagtagca tatataaatg cactgtaata attactggct      360

atcctaatac ttcaaacatt caagacagca ctgtgatttg tggtcctgta actacatcaa      420

tatttgctga taaatgcatt aatangtaag ttagtcattg cttgccagca attgagacta      480

cattcttct                                                             489
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<210>   28
<211>   582
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (422)..(422)
<223>   n = unknown at position 422

<220>
<221>   misc_feature
<222>   (479)..(479)
<223>   n = unknown at position 479

<220>
<221>   misc_feature
<222>   (520)..(520)
<223>   n = unknown at position 520

<400>   28
agctgccaat tatagtaatt agctactaaa gctttccagt taactctgga actgctttaa       60

ataaatcagc tactaaacca aagtctgaaa cttgaaatat gggtgcctct ggatctttat      120

tgattgcaac aatagtttta gaatctttca ttccagctaa gtgttgaatt gctccagata      180

ttccaacagc aatatagagt tcaggtgcaa caatcttccc tgtctgaccg atttgcatat      240

catttgggca aaatccagca tctaccgcgg ctctagaagc gcctactgca gctcctatct      300

tatccgctaa gtcaaataat aatttgaaat tatcaccaga ctttaaacca cgtcctcctg      360

atacaatagt cttagcactt gataattcag gcctgtctga tttacttagt tcttgggata      420

tnaatgtggt caaatcggga ttatagtcac ctctgggaac atctttcact tcagctggng      480

aagaatttaa tgcagctggg ttcaaagctg gtgccacgan tagatatgac tttagtggat      540

ctttcacctt cagtgtctga atacgttacc ggcataaatt gt                        582
```

```
<210>   29
<211>   314
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (185)..(185)
<223>   n = unknown at position 185

<220>
<221>   misc_feature
<222>   (258)..(258)
<223>   n = unknown at position 258

<220>
<221>   misc_feature
<222>   (283)..(283)
<223>   n = unknown at position 283

<400>   29
taatgtcgta gaaggtgaaa aactgcgagt tgtttgcaca gttgtaggca aacctacacc     60

aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgatc gaatcaaatt    120

gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga    180

tcgangagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttattctaca    240

accttggttc gagttcanga taaaataact gctttgtggc canttttggg tatctgtgct    300

gaagtaatta cttt                                                       314


<210>   30
<211>   133
<212>   DNA
<213>   Ctenocephalides felis

<400>   30
ccgggcaggt acggcctctt gcaaggcttc gtggtgcatt tcaacggatt taacttcagt     60

ggtcaagttg gctggggcaa atacaacaac agtgcctggt ttcaagactc cagtttcaac    120

acggcctact ggt                                                        133


<210>   31
<211>   485
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<222>   (2)..(2)
<223>   n = unknown at position 2
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<220>
<221>  misc_feature
<222>  (216)..(216)
<223>  n = unknown at position 216

<220>
<221>  misc_feature
<222>  (332)..(332)
<223>  n = unknown at position 332

<220>
<221>  misc_feature
<222>  (406)..(406)
<223>  n = unknown at position 406

<220>
<221>  misc_feature
<222>  (463)..(463)
<223>  n = unknown at position 463

<220>
<221>  misc_feature
<222>  (467)..(467)
<223>  n = unknown at position 467

<400>  31
angggatctg ttctcacgca gattccgcac ccgaggagtc atccctctgt ctacttatat      60

gaaagtgtat aaagtgggag acatagtaga cataaagggt aatggtgctg tgcagaaagg     120

tatgccttat aaagcctacc atggtaaaac tggacgtgtt tataatgtaa cccctcatgc     180

gcttggtgta atagtaaaca aacgtgtccg tggtanaatt attccaaaga gaataaatat     240

tcgtattgaa cacgtaaagc attcaaaatg cagagaagat tttttgaaac gtgtgaagga     300

aaatgaacgt cttcgacatg aagccaagga anagaaagtt catgttacat tgaagagaca     360

acctgctcaa cctcggccag caaatattgt caaaggaact gatganccaa tacgtttggc     420

accaattcct tacgaatttta ttgcataaat ttgtaaactt tanatanata attaagattt     480

gtaaa                                                                 485


<210>  32
<211>  439
<212>  DNA
<213>  Ctenocephalides felis

<400>  32
gtcgatagag atttggagag gttcaacaaa gaagttgaaa ggaaacttag caaaaaagtg      60

agtgaagccg caaaggaatg ccttaaaggc caacaccaaa aagctctagg ctacgcacaa     120

gaagcccgtg ccaaggtcaa ggcttgcaga gatgacaaac gtgatgaatt caaccaagtt     180

cgccaaaatg gcttggccgc ctggagagaa gccagggaga acgccgaagc cctcagagca     240
```

```
caagccaagg agtgcgttgt gaccgcagcc gatgtcgatg aagccagagt ttgcttgaaa    300

ggggttctcc aagctgccca cgaaggagca aaagacttgg ccaaggcact caaagaaacc    360

tggtcccaat tgggcaactt agtccgtgaa gtcggaaaat gcgcaagggg agccttgaaa    420

gaattaggga caacttagt                                                 439
```

```
<210>   33
<211>   498
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (344)..(344)
<223>   n = unknown at position 344

<400>   33
attacacaga attcgtgcaa agaacactgt tttggcgact ggtggttatg gacgagcata     60

tttttcatgc acttcagcac atacctgcac aggtgatggc accggtatgg tagccagagc    120

tggattacca gcacaagatt tagaatttgt gcagttccat cctacaggta tttatggagc    180

tggctgttta attactgaag gatgcagagg tgaaggtgga tttttggtaa attctcaagg    240

agagagattt atggaacgat atgcacctgt tgcaaaagat ttggccagta gagatgtggt    300

ttctagatca atgacaattg aaatcaatga aggtcgcggt gtangacctg agaaagatca    360

cgtttttattg caattacatc acttaccagc tgaacaatta gcgagcagac ttcctggtat    420

ttccgagaca gctatgatat tttgtggtgt tgatgttact cgtgagccaa tccccgtttt    480

accaacagtg cattataa                                                  498
```

```
<210>   34
<211>   427
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (403)..(403)
<223>   n = unknown at position 403

<400>   34
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg     60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt    120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg    180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg    240
```

```
ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aangagcaca aacaaaatgt     420

cattaac                                                                427



<210>   35
<211>   362
<212>   DNA
<213>   Ctenocephalides felis

<400>   35
cagtgcgggg gcacctttga cactcgattt aataaagaaa cgggtcacat tagtttttgca     60

actgtatgac aaaattgatc cagcaaagtt gaaattggag tcacacttta tcaacgactt     120

aggtttagat tccttagatc atgtagaagt tattatggcc atggaggacg agtttggttt     180

tgaaatccca gatggtgatg cagaaaaact gacccgacct gcagatattg ttcgatacgt     240

agcagataga gaagatgttt atgaataaac taaataaatg gttgatttgt aaaacatttt     300

agaataataa tttcaatatc tgcacaaaaa ttatgtgcag tttgattatg tctgaacctt     360

gt                                                                     362



<210>   36
<211>   462
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (445)..(445)
<223>   n = unknown at position 445

<220>
<221>   misc_feature
<222>   (451)..(451)
<223>   n = unknown at position 451

<400>   36
ttgtcgaatt ctatgctcca tggtgtggac actgcaaagc tttagcccca gaatacgcaa     60

aagcagccaa acagttagaa gatgaaaaat ctgaaatcaa acttgccaaa gttgatgcca     120

ctgaagaagg cgatttggct gagaaatatg gtgttcgagg atatccaact ttaaaattct     180

tccgtagcgg aagtgaaatt gattatacag gtggacgcca agctgatgac attattactt     240

ggttgaaaaa gaagactgga ccaccagcta aagaactgga atctgttgat gacgccaaag     300

catttgttga ggaaagccaa gttgtcgtta ttggtttctt taaggatcgt gaatcagctg     360
```

```
aagctaaggc attcttgtca actgctaact ctgttgatga ttatccattt ggtatcacga     420

gcaatgaaga agttataaca attangattt naatgtgggt ca                        462
```

```
<210>    37
<211>    0
<212>    DNA
<213>    Ctenocephalides felis

<400>    37
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<210>    38
<211>    429
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (286)..(286)
<223>    n = unknown at position 286

<400>    38
gatcggttgc aatttgtcat tgcaccaagc ataaattgat ggggtccggt gcataggtta      60

taaaagaatt gggatttgtg catttcatga cggtgcaatc agcttctgac gatttctttt     120

tacacatatt tttaaaatga tcatatacat aagttaggtg ggcattcgaa aacctgacct     180

ttaacatctt tgcagaataa gtatcttgtg caagtctttc gggatctggc tgatatccct     240

acaaaccgcg catggtagtt tctggccgtc ttacagtttt ccccangttt tgatgagcac     300

atatcatcta cacaaaatgg agcatcggat ttgagtctct gcaattgatt gttgtattgg     360

ggtttcttgt ccagcgcaca acttcaaagt agaacaatcg tgacaaaatg ttcccaactg     420

cttattagt                                                             429
```

```
<210>    39
<211>    498
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (426)..(426)
<223>    n = unknown at 426

<400>    39
tgtatgagag ttttgcatcg ccaggcggga tttattgctg aagttcaaca aagatgcttt      60

catgtctcgc cattaactgc catggccagc aaggtggcca tgagcaaatt cgacagtgat     120
```

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```
tcttatctgc cttatggaaa attatcaaga aaatttaaaa gttgttaaaa agcgtttgaa    180

caggccatta actctttccg aaaaagtatt atattctcat ttagatgaac ctgaaaaaca    240

agaaattgaa agaggaacta gctacttacg tttaagaccc gatagagttg ctatgcaaga    300

tgctactgct caaatggcca tgttgcaatt tatttcatca gggctgccta agttgccgt     360

tcctagcacg attcattgtg atcatttaat cgaagcacaa atcggaggag atcaagatct    420

tgctanagcc aagacattaa taaagaagta tacagtttct tatccagtgc tagtgctaaa    480

tatggggtgg gcttttgg                                                  498
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<210>   40
<211>   498
<212>   DNA
<213>   Ctenocephalides felis
```

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<400>   40
tgcctgacga aattctcaaa gaagtcgttc ctgggtaata taagaaacgc agaacacttt     60

gtaggatttc tgaaaagatt tgtcgaatac atcaaaacca ggcttcgggt acagcatgtc    120

gtgcaggaat caccagcagg ttttctcaaa gacatccagt caaaagtatg catcgaaaga    180

aagcctctga gattttgtgc agaaagactc gcttctctgc ttcggactct ggaagtgacg    240

gatatgactg attttggagc cctggttttg atcacacatt tagctacatt ggtttccacg    300

tatacacatg gattactat tattgttgaa ccattcgatg ataagactcc gaatgtttcg     360

aacccgattt tgtatttcag ttgtttagat tcatcattag ccatgaggcc agttttctca    420

agatttcaat cagttgtcat cacatcagga actttgtcac ctttggatat gtatccaaag    480

attttggatt ttcaacct                                                  498
```

```
<210>   41
<211>   177
<212>   DNA
<213>   Ctenocephalides felis
```

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<400>   41
aagggcaatt ttcggtttaa ggcatattgg aatgaggcat tagcgaaatc tacaattgaa     60

ctatcggtgt tgaacattcc catggcgact ccaggtcctt ggtaagtgtg gacggtgaag    120

ctcattggac ttcccgattc gggggtaaat gtcaattcta atttaccctt tcctggt       177
```

```
<210>   42
<211>   211
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   42
```

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tgttccaata cctccaatttt tgtagacatc ttgcaatggc agacggaggg gcttgtcggt      60

gggacgagct ggaggtaaga tggcatccaa agcttcaatc aagcatttgc cgtcagcctt     120

gccttctttta cgttcaatgt tccatcccttt gaaccagttc atcttggtgg aaacttccaa     180

catgttgtct ccgtgccatc cagagatggg t                                    211
```

```
<210>   43
<211>   452
<212>   DNA
<213>   Ctenocephalides felis

<400>   43
tgaatgtatg aatttggaag tctttagaat tctgtattgg gaaatcttcg cgataccatt      60

taatcgtagg taaaggatcg ccatcaaatt ccacttcaaa acgagcttgt tcttgttcaa     120

aagctctgca aggttgaatt ttctttgtga aaaatggagc tttagatggt tttacaggac     180

cttgaacaac tctttcaaat gttttgccct tgtgttcaac ttctgtcgtt cggtcgcag     240

taatcttgcg ggttatttct aaatctccca ctgtttcctt ttgtgtttgc ttttgtttgg     300

caacatgaac ttcttttcca tgcactgttg attctgaagg ttcaggtggg tgacctggga     360

catgttgaga atctattata tattctgttg tatgtggctt ttggatatat tttgctttag     420

gaggagcatc aacagctgtc tcagtagttt gt                                   452
```

```
<210>   44
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   44
tgcatctagt tccagtcaca tgttgatatt tggttcttgc aagcattgaa tgcattgcat      60

gtcccatttc atgaaaaaga ttatctacca tagctgggct taaaagcgtg gggcttgacc     120

atcgcggtgg tgccaaattt aatacaacta ctactatagg attctgatat gaaccatcgg     180

atttctgttt accaccttgt atggtaaaat ggcaatcttg atttggcttt cctggtcttt     240

cataaaaatc acaatatata tgacctagag ttccttcagt ctcatgaaca attttaattt     300

tatatatatc attagcccaa gcttcaccag gtgccatttc ttcaattaca aatttaatac     360

caaataaaga ttgcattaat atgtccaatc cttccataca accaccaagg ctaaaataag     420

gagcaaactc agatgctcca acttgtaacc attgcttcct gattttttgt gtaagtaagg     480

tgtatcccaa gcagctaa                                                   498
```

```
<210>   45
<211>   498
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<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (488)..(488)
<223> n = unknown at position 488

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ctcatgtagt cagtttatta aataatatgc ctagcaacct tcaccctatg tcacagttat   120

catgtgccgt cacagcatta aacagtgaga gcaaatttgc aaaagcctac agtgaaggag   180

tcaacaaagc taaatactgg gagtatgtat ttgaagacag tatgaactta attgctaaac   240

tgcctgtagt agcagcaaca atataccgca acacatacag ggatagtaaa ggaattagtg   300

ccattgatac aaacaaagat tggtctgcta atttcacaaa aatgttgggt tatgaggatg   360

aaaaattcac tgaattaatg cgtctatacc tcaccattca cagtgatcac gaaggtggca   420

atgtatcagc gcatacagtt catttagtag gatcagccct cagcgatcct acctctcatt   480

tgctgcangt atgaacgg   498

<210> 46
<211> 500
<212> DNA
<213> Ctenocephalides felis

<400> 46
tttttttttt tttttttttt tttttttta ttattgaaat tcatttattg aatataatta   60

aaatttcaca tatttatatt cataatttta ctacatttct aagccttcat tataataccc   120

gttgcctgca gctccactag ttttacttgc attagaatta atattgtttg gataatcgtc   180

atttttaata cttgtatttg tattagttaa attttggcc catggctgca cttcgccgga   240

tgcaaaaaac caatatatca cagctcctaa caaatatatt ccacttgaaa tgtaaaatac   300

aatttgccac gatgtgagta aatcatctcc aacctttcca ttaacaatga aaccagtcaa   360

ttgagggctg attattcctg gcaatgttgc aaaagtattt gacaatccca tcagaacgct   420

agcatattgt ggtgcgatgt ccaaatgatt tacactgaat ccagaccaag caaaagcgcc   480

caaacccaca gcgactgcag   500

<210> 47
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 47

attgccttat tatcaatgct tttgtctaag ttcttgatga acacattgcc tacacctgac   60

ttacgcaaag aggatctctt tgagaccaca taatgcgaat aggtctgccc ttgagcatat   120

cgaagttcat ggtgtctatg gctcgctcgg catcggcagg ctgctggaaa ttaacgtagg   180

cgtagcccaa ggagcgcctc gtgatcatgt ctcggcatac ccttatcgac aatacgggcc   240

ccgcagtcga aaacttctca acaacatcg cctcggtgat gtcggaatgc agatctccaa   300

cataaaggga cgccatcggg tagttaggag cccctggatt catatcttac ggcctttata   360

tacttaaacc acgaacaaat taattattaa taagaattga ttaaaaatat ctatatttcc   420

aacgtggcgt atatctcctc aaaatggctc gtctgtcagt caaaccacgt tgaatgcgcg   480

cactagtttc aacatttg   498

<210>   48
<211>   375
<212>   DNA
<213>   Ctenocephalides felis

<400>   48

tttcagaaga gaacttgcgt ggtgttagat tcaacattta tgatgtcaca cttcatgctg   60

atgctatcca cagaggaggt ggccaaatca ttcccacaac acgtcgttgc ttgtatgctt   120

gcttaataac agctgcacca agattgatgg aacctgtata tcaatgtgaa attcagtgtc   180

ctgaagttgc tgttggtggt atctatggtg tgtggaactg gtatagttat ttgacgctcc   240

ttctcgaaaa catacaaaac agccatggga aaggaaaagg ttcatattaa catcgtcgtc   300

attggacacg tagattcagg taaatccacc acaactggac acttgatcta caaatgcggc   360

ggtatcgaca agcgt   375

<210>   49
<211>   168
<212>   DNA
<213>   Ctenocephalides felis

<400>   49

caaacggtgt gaactccttg cgcagccttt catcatcgat tgtgtcatca aggttcttga   60

catacaggtt aacaccttgg tagcgattca gacgttctat tttcagctgc tcaaacttac   120

gcttgagttc ttgttggcgt tcagctttct tttgagcacg gccaacgt   168

<210>   50
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

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<400>  50
attttccttt aactttaatg agaatggtca tatcagtaag atctttacca tcccatttat      60

caaatggttc caacaattgc aatcggtctg atttaggatc aacattaact ttcacacttg     120

agccatctgc aggaggttgt tcatatgtat cttgacctgc atcgaaacct ttgcttggaa     180

gttcatcgcc aaagggtgaa tcaagtttga attctttgcc atcgcttcct ttcagagtat     240

ctgttactgg attaaaatct aagcggccag caattgatag agctgtgact aattcaggac     300

ttgtgacaaa acagtgagtg gcaggattag catcattacg gcctgtgaaa tttctattat     360

atgaagtaac aattgtgttt ttctctcctt tcttcacatc cttacgatcc cactgaccga     420

tgcaaggtcc acaggcattg ctaaaacagt gcccccaaaa ttcacgggag aagtttgggc     480

aattccatct cgttcgat                                                    498
```

```
<210>  51
<211>  498
<212>  DNA
<213>  Ctenocephalides felis
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<400>  51
aatcaataag aatattgggg ccagttccat caggaccaaa gcaccagatt ttacgagctt      60

cagttacatc ataatcatac tgttcaccaa gataacgagc acgagctttg aattcatcac     120

gggggttgac ttttccactg tcgatgtctt ctgcgaggcc atcaggcata ggttgtgcct     180

tcatgaataa tctgttgtgc ttgtttggag atttagacaa gcacatttgg tctgattctt     240

cagatacagt ttccctgtaa gatacaacag ggtcagattt ctttaatgga atgcaagcat     300

ggtcttcttc caaatctttc aagcaaattt ccaagtgcaa ttcaccggca ccagcaataa     360

tgtgttcacc agattcttca atgatacatt ggaccatagg atctgatttg gccaggcgtt     420

tcaaaccttc taccattttt ggcaagatca gcagggttct taggttcaac agcaacacgc     480

acaacaggag aaactgag                                                    498
```

```
<210>  52
<211>  310
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>  52
cggcgcgacg atacgcgtgg agtcttcgcg ggggccggag tttatgatga cggttaccaa      60

gatctgtaat ggattttctc cagtaagcaa atgaatgatt tcaaaagcgt gcttgacaat     120

acggatggcc atcagttttt tgccattgtt acgtccgtgc atcatcaggg agttggtcag     180

acgttctacg atggggcact gggctttgcg gaaacgcttg gcagcgtatc taccagcaga     240
```

```
gtgggggtaga tatttggcgt tcttttcttt gacggcgatg taatcctgta gtgacatatc     300

agagacttgt                                                              310


<210>   53
<211>   325
<212>   DNA
<213>   Ctenocephalides felis

<400>   53
aatcacagca ggaagcaaat gacgacaggg agtgccataa agatggatgg aacttcttca      60

acacagatat tgttttcgac agaaatggag cagttgtggc cagatatcga aaattcaacc     120

tttttagtga aaaacaattc aataccacta aatttcccga acattcgaca tttgtcacag     180

atttcaatgt aacgttcggg ctgttcacct gtttcgacat aatgttcaac gaaccagcct     240

tggccatggt gagagaaggc gttagagact ttgcattccc aactatgtgg tttagcgaat     300

tgccattctt aacagctcgt caagt                                           325


<210>   54
<211>   623
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (581)..(581)
<223>   n = unknown at position 581

<400>   54
caactaataa aacaagatcg gcttcttcag ctcttgcaat agaattattc agtatataat      60

ttgatctcaa atctgtgccg gcaccttctg atggaaatga ttgttcagtg tataaatttt     120

ccgatcctat tttattgaac aagtctttga gtgataccaa tgcctctgca tcagcaagac     180

caccagcgac tgcagcaatc tggcatggct ccacaccttg caaggcttta catacagcaa     240

taagtgctga ttcccaatca acaacttcta attgtgatcc tgatttcctt aacatgggtg     300

tgactaatct ttgtcgttta agaccatcaa tagcaaatct agatttatcg ataaccatt      360

cttcattaat ttcctcatta gttcttggta aaactcgtaa aacttcccca gatcttgagc     420

taacaacaat attgctccct atagcatcta aaatatcaat agaatcgatc cggcgagttt     480

cccaagagtg aaaagtaaac gctgtaggtt tcgacgttaa agcaccaaca ggacacaagt     540

caataacatt accagataat tcaagtcata aaaaggtttt ncacatatgt gccaacttgc     600

atgtcgtttc cacgacctgt agt                                            623
```

<210> 55
<211> 527
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (528)..(528)
<223> n = unknown at position 528

<220>
<221> misc_feature
<222> (540)..(540)
<223> n = unknown at position 540

<220>
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<222> (556)..(556)
<223> n = unknown at position 556

<220>
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<222> (595)..(595)
<223> n = unknown at position 595

<220>
<221> misc_feature
<222> (615)..(615)
<223> n = unknown at position 615

<220>
<221> misc_feature
<222> (631)..(631)
<223> n = unknown at position 631

<220>
<221> misc_feature
<222> (658)..(658)
<223> n = unknown at position 658

<220>
<221> misc_feature
<222> (672)..(672)
<223> n = unknown at position 672

<220>
<221> misc_feature
<222> (688)..(688)
<223> n = unknown at position 688

<220>
<221> misc_feature
<222> (698)..(698)
<223> n = unknown at position 698

<220>
<221> misc_feature
<222> (702)..(702)

<223> n = unknown at position 702

<220>
<221> misc_feature
<222> (705)..(705)
<223> n = unknown at position 705

<220>
<221> misc_feature
<222> (707)..(707)
<223> n = unknown at position 707

<220>
<221> misc_feature
<222> (711)..(711)
<223> n = unknown at position 711

<220>
<221> misc_feature
<222> (744)..(744)
<223> n = unknown at position 744

<400> 55
ttaattttaa taaaagtgca tgcgaaaatc tagccgcaat gtctggaatg ttgacgattt   60

catcgcggac cattccgcga aaagttttac gacttgcgac agatctcgta gaggcaaata   120

attcaaaggt tctgaaagca gccttaagta ctaaagcctc acacaaacaa tgcgttctaa   180

gactagccaa accagaggta tataacatac ctagaacaaa ggtgttaatg aagtggcctc   240

aacataatcg attagtgcac tcttctgcag cttttatgc atcaaaagta gttaatgtac   300

ctccatttgc agattctgta tcagaaggcg atgtcaagtt ggacaaaaag gtaggtgact   360

atgtgtctgt cgatgaagtg gttatggaaa ttgagactga caaaacatcc atgcctgttc   420

cggcaccaga aggtggtgtt attgaagaaa tcttagttaa agatggtgac actgtcaaag   480

ctggacaggc tttgttcaaa ctgaacactt cagctgcacc accagca   527

<210> 56
<211> 478
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (5)..(5)
<223> n = unknown

<220>
<221> misc_feature
<222> (37)..(37)
<223> n = unknown

<220>

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<221>  misc_feature
<222>  (41)..(41)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (206)..(206)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (248)..(248)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (279)..(279)
<223>  n = unknown

<220>
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<222>  (298)..(298)
<223>  n = unknown

<220>
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<222>  (306)..(306)
<223>  n = unknown

<220>
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<222>  (346)..(346)
<223>  n = unknown

<220>
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<222>  (352)..(352)
<223>  n = unknown

<220>
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<222>  (356)..(356)
<223>  n = unknown

<220>
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<222>  (364)..(364)
<223>  n = unknown

<220>
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<222>  (371)..(371)
<223>  n = unknown

<220>
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<222>  (386)..(386)
<223>  n = unknown
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```
<220>
<221>  misc_feature
<222>  (401)..(401)
<223>  n = unknown

<220>
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<222>  (409)..(409)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (431)..(431)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (448)..(448)
<223>  n = unknown

<400>  56
tgaangccct ttagtgcgct cggaattcgg cttcgancgg ncgcccgggc aggaccattt     60

gcaagaatta tcagtgtaat ccaaaaacaa tcctgtccgc acgcaagcaa agggttgcga    120

tggtcctggt cctggtggcg gtggtggagg tgcagctgtc gccaagcact cggataaagg    180

cgcttgcacg cattgatggt aaagcncgct gaagtatgtc tgtccggcgc atgtaaagcg    240

acccacgntg aaatttcctc cagagagtct cacacattna aaatatactt tgcatgtnct    300

gtctgntgga tctgcaaatg agccgctctg cacgcagttg tatatnggcg gnggcntatg    360

tggntgccaa ngcgctggag gatttnttag gcactccgaa ngggaaacna ccacacattg    420

ctgataccgt nctgcttaag taagtagnac caggacaatt gtgcgcgcta cactgaat      478
```

```
<210>  57
<211>  498
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (496)..(496)
<223>  n = unknown at 496
```

```
<400>  57
acacatgatc taatcatcct tctttgaatc tgtctttcca ccacgtattc taccagtacg     60

tcttgcagca ataagaccaa tcttacgacc agcagatgtt cctctcttaa cagtagatgc    120

tttaccaata tgttgatggt taccacctcc gtgaggatgc tcaacagggt tcatagcaac    180

accacgaacc ttaggccagc agttcctctt aaccttgtat ttgtggtatg ctctaccagc    240

tttcaaaata ggtttgtcaa tacgtccacc accagacaca ataccaacca tagcacgatt    300
```

```
gttagaaggc ataacctttt tagctccaga tggaagcttg acacgagtct ttttagtgtc    360

cgggttgtga gcaataacag tagcgtagtt tccagaagca cgggctagcc gacctcggtc    420

accagttttc tcctctaagt tgcatacaat ggttccttct ggcatagcac caactggcat    480

tacatttcct atttgnag                                                  498
```

```
<210>   58
<211>   190
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   58
acgtttgggc aatgggaacc tgattttcgc atcgtggaat tgtgtaactt gagggcgtct     60

acaattagca gctttcactt cttccacttt gattacttga atagagtgag cacgagccct    120

gtggcgtgca cccatgtcac gatagcactg agtgacggca cctccgacag ttaagtctct    180

gtattccctg                                                           190
```

```
<210>   59
<211>   393
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (61)..(61)
<223>   n = unknown at 61
```

```
<220>
<221>   misc_feature
<222>   (69)..(69)
<223>   n = unknown at 69
```

```
<400>   59
tctccaatat caaagcaggc tacagacaga acaaggggat cacgagagct ttcaagtaag     60

nggatcaana tacgcaataa ctcataattc ttctcattga gacgtggggc attctctctc    120

cagaacttag cagatttgtg aacaggtgac cattccaatc tgccggactt gatttctgta    180

gcatattcat caaatgagct aaggtcttga atggaagctt gtaatttttc ggtcaaatat    240

tcaacatcag caacgatatc ctcatcatct gaacgtcttt gttccaggat ggataattgt    300

ttcaatacct tgctttgcac cattgcaatg caatgctcct tggccacctg ttgatcttcc    360

actttctcaa ttaaattcct ataaacagcc agt                                 393
```

```
<210>   60
<211>   307
```

```
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (62)..(62)
<223>  n = unknown at 62

<400>  60
tggcgacacc tgactactct cacaccggtg agctacaaac gctcaacatg aagctaagaa      60

anactctaga gttatatgcc aatgttgttc atgttaaaag tttgccagga gttcgctcta     120

ggcataagaa tattgactgt gtaatcattc gtgaacaaac tgagggagag tatagtgctt     180

tggagcacga aagcgttaca ggagttgtag aatgtttaaa aattataaca gctaagaaat     240

ctgaaaggat tgccaaattc gcttttgact atgcaacaaa gcacaatcga aagaaggtga     300

ctgctgt                                                               307


<210>  61
<211>  229
<212>  DNA
<213>  Ctenocephalides felis

<400>  61
gaaaggccgt gatctttttg ccatttttga tcaattggac acggacacac ttgcggatgg      60

cagagttggg ctgtttggct tctacgccaa ctttctccaa aacgattccc ttagcgtgag     120

aagcacctcc gaaaggattg gccttccacc tggttcctaa atgagccttt ttgtagtctt     180

tgtcggccca cctttggtca cgacgatggt taacatgttt tctagcagt                 229


<210>  62
<211>  326
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (194)..(194)
<223>  n = unknown at 194

<220>
<221>  misc_feature
<222>  (248)..(248)
<223>  n = unknown at 248

<220>
<221>  misc_feature
<222>  (279)..(279)
<223>  n = unknown at 279
```

```
<220>
<221>  misc_feature
<222>  (327)..(327)
<223>  n = unknown at 327

<220>
<221>  misc_feature
<222>  (347)..(347)
<223>  n = unknown at 347

<220>
<221>  misc_feature
<222>  (362)..(362)
<223>  n = unknown at 362

<220>
<221>  misc_feature
<222>  (369)..(369)
<223>  n = unknown at 369

<220>
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<222>  (374)..(374)
<223>  n = unknown at 374

<220>
<221>  misc_feature
<222>  (381)..(381)
<223>  n = unknown at 381

<220>
<221>  misc_feature
<222>  (397)..(397)
<223>  n = unknown at 397

<220>
<221>  misc_feature
<222>  (400)..(400)
<223>  n = unknown at 400

<220>
<221>  misc_feature
<222>  (426)..(426)
<223>  n = unknown at 426

<220>
<221>  misc_feature
<222>  (432)..(432)
<223>  n = unknown at 432

<400>  62
atcactagct catcatgtta tagctgcttg gttttttaaaa tgcaggctgc ctttcaggag      60

agattttgta aaatttatca ccacggtatg tgtgaaatat aacaattgtg ttaacttggt     120

agtaaacaaa atatattaat caattcatga cgtataggc ctaaaatcaa attgcattgc      180

accatttgag gaangaagga tattaattaa accagaggtt acaactttga atgaagaatc     240
```

atcttacnga aaaagaaagt ctaggttaac agaaccagnt aggtatttgg.aggttttcat   300

aagaaaaatg ggtgaaatgg taaatg   326

<210>   63
<211>   525
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   n = unknown at position 5

<220>
<221>   misc_feature
<222>   (15)..(16)
<223>   n = unknown at positions 15 and 16

<220>
<221>   misc_feature
<222>   (20)..(20)
<223>   n = unknown at position 20

<220>
<221>   misc_feature
<222>   (24)..(24)
<223>   n = unknown at position 24

<220>
<221>   misc_feature
<222>   (29)..(29)
<223>   n = unknown at position 29

<220>
<221>   misc_feature
<222>   (31)..(31)
<223>   n = unknown at position 31

<220>
<221>   misc_feature
<222>   (43)..(43)
<223>   n = unknown at position 43

<220>
<221>   misc_feature
<222>   (48)..(48)
<223>   n = unknown at position 48

<220>
<221>   misc_feature
<222>   (55)..(55)
<223>   n = unknown at position 55

<220>
<221>   misc_feature
<222>   (127)..(127)

<223> n = unknown at position 127

<400> 63

```
tgggnactat tggtnngctn tttntaaanc ncccgccctt tcnggtanat cctcncagtg       60

ggccagttag ataacgtg gccacatata cctacagcat cccattcaat gttagataga       120

cctgatncat cggagtaagt agcctgcgaa agcaaatgct gtaaggcgtg tccaaatttg      180

ttgaataaaa ttgatacctc ttttagagac agaagagaag gtatattgcc ctcaggagga      240

tttagactta aaattaatga tgctaatggt gttgtatcca caatttact tttattgcgc       300

atactcaaca tccatcctga actcttttgg aatatcttct cttcttctct agtataagga      360

tctaaataaa atccagccag tggcaattca gctgcagaat catgtatatc aaaatacctt      420

acatctttat gccaagtatt catatttgac ctttcgataa ttttaatacc atacaacttt      480

tcacacaact gaaatagccc gttcaaaacc tttggaaatg ggaag                      525
```

<210> 64
<211> 164
<212> DNA
<213> Ctenocephalides felis

<400> 64

```
gaaacaacag ctgctgggtt gtaaccgatc ttcttgatgt atgaggatac ttccttcttg      60

atttcctcga aacggttctc gctgtatggt ggctcagtgg agtccatctt gttgacacca      120

acgatcagtt gttttacacc gagggtgaaa gccaacaagg cgtg                       164
```

<210> 65
<211> 490
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = unknown at position 4

<220>
<221> misc_feature
<222> (12)..(12)
<223> n = unknown at position 12

<220>
<221> misc_feature
<222> (19)..(19)
<223> n = unknown at position 19

<220>
<221> misc_feature
<222> (22)..(22)

<223> n = unknown at position 22

<220>
<221> misc_feature
<222> (41)..(41)
<223> n = unknown at position 41

<220>
<221> misc_feature
<222> (74)..(74)
<223> n = unknown at position 74

<220>
<221> misc_feature
<222> (82)..(82)
<223> n = unknown at position 82

<220>
<221> misc_feature
<222> (107)..(107)
<223> n = unknown at position 107

<220>
<221> misc_feature
<222> (216)..(216)
<223> n = unknown at position 216

<220>
<221> misc_feature
<222> (252)..(252)
<223> n = unknown at position 252

<220>
<221> misc_feature
<222> (298)..(298)
<223> n = unknown at position 298

<220>
<221> misc_feature
<222> (450)..(450)
<223> n = unknown at position 450

<400> 65
ctgncagtcc ancaccctnt gncaatttaa acattagctg naatcttcca gtggctccta   60

agtcaattcc agancgatct anttcatctg tgtcaagtga ggattgncca gtttgtaaat   120

ctagcctctc agtaacattt ccaactttca taggtcgacc agccaattca aatccattta   180

actgctctaa tgctttttta gcatcatcgt gattgngaaa cgttaaaaag ccatatccct   240

tagaccgccg gnttccggat ccattatcaa ttgtatgctg tcaatttttc caaaaggntc   300

aaatattcct cttaacatat cttcagttat attgaaatgt aacgaaccaa catataatct   360

catgggacca gtatggcctt tggtgctaaa ttgggcattg aattacccat gcgatttttt   420

tcagcctgtg tgcgctgaac tacaatcggn attcctaata acttttgcct ggtagaccta   480

aaggcaatgg   490


```
<210>    66
<211>    97
<212>    DNA
<213>    Ctenocephalides felis

<400>    66
ttctcatgat gggtcgttat gtagaactat tgaagatgtt ccttctggta acatttgcgg      60

tttggtcggt gttgatcagt tcttagtcaa gacaggt                              97


<210>    67
<211>    533
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (30)..(30)
<223>    n = unknown at position 30

<220>
<221>    misc_feature
<222>    (73)..(73)
<223>    n = unknown at position 73

<400>    67
ctggctaaca cattatttag aaattactgn aattccgaga actcatgtct taaaagaact      60

tgctgaatac tgntctgatg aaaaagaaaa agaacaatta aaattaatga gctcaactgc     120

tccagaagga aaacaattgt atcaagattg ggttgttgac cagaaccgca atattgtgca     180

tattttggaa gatctgccat catgtcgtcc tccaattgat catctgtgtg aattgttacc     240

tcgcttacaa ccacgttatt actcaatttc aagtagtgct aagctgtttc ctaccacagt     300

tcatatcact gctgttctag tgaagtataa aactccaact ggtagaatca acaaaggtgt     360

tgcaacatct tggctggcca agttcaaccc cagtcctgag aaacctcaag ttgtgcctat     420

atttattaga aaaagtcaat tcagactgcc aaccaggtct cagactccaa ttattatggg     480

tggcctggcc aaatctcttt cttgtataaa tcctctgaaa ggagccaaac ctg           533


<210>    68
<211>    439
<212>    DNA
<213>    Ctenocephalides felis

<400>    68
tcgtggggta gttcttggga aaatttcttg gcttccctgt gatacatttc ctgagcccgt      60

gaacacgaac gtcaatggac ctacagattt tggcatcata cctaaagcga tttcatatcc     120
```

```
agcatccctt atggattgtc tggccatgga ggaatttctg taattgtgag ccaatccaat      180

atgcatgaaa ggtgtatgat gacccaaagc taaaagacgt aaacctaatc cgtgcaaaat      240

attgatcata ccggcaacac cagcatattt tccaaatgct actactcttt ggcccttttc      300

gtccatcaac ttttcataat cgataagacg aatattcttt tccataattg catcaagtaa      360

aggcatatta gattcttggg ctttgataac atgtgaaaac atgcagtagg ttttattggg      420

aattaattgt tctacaggt                                                   439
```

```
<210>   69
<211>   268
<212>   DNA
<213>   Ctenocephalides felis

<400>   69
ccacaggaaa ggaggtagct atcaaaatta ttgacaaaac acagctcaat cctggttcgc       60

ttcaaaaact tttccgagag gtgcgcatca tgaaaatgtt ggatcaccca aatattgtaa      120

aactgtttca agtgattgag acagaaaaaa ctttatatct agtaatggaa tatgcatcag      180

gtggtgaagt gtttgattat cttgttcttc atggtaggat gaaagaaaag gaagctagag      240

ccaaatttag gcaaattgtt agcgctgt                                         268
```

```
<210>   70
<211>   145
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (49)..(49)
<223>   n = unknown at position 49

<220>
<221>   misc_feature
<222>   (71)..(71)
<223>   n = unknown at position 71

<400>   70
ctctcgtcgc taactctcaa ttcctgggtg acttgctcgt agtctccgnt caaagtcgat       60

aattcctgct ngattttgct ctttgagctt gccaaattga cgttgattac cgtcaactcg      120

ttgatgcggg cgacgctctc ctcgt                                            145
```

```
<210>   71
<211>   327
<212>   DNA
<213>   Ctenocephalides felis
```

<220>
<221> misc_feature
<222> (207)..(207)
<223> n = unknown at position 207

<220>
<221> misc_feature
<222> (227)..(227)
<223> n = unknown at position 227

<220>
<221> misc_feature
<222> (304)..(304)
<223> n = unknown at position 304

<400> 71
gagtgcacag aaaattctct accttgagaa agtttatgga aaaattagag aattgtaact   60

atgctgttga tcttggaaaa cagatcaagt tctcactagt tggtattgct ggacaggaca   120

tcaagtgaag gaaatgctac tttaactttta gcgcccatat ggcagcttga tgagagctta   180

tactttatct gtgttgacac gtttggnaaa cactggaagt ccaatanttg aaagagaaat   240

tgttcagtgg gtgaatacca agctagcagg tgccaataaa acaacatctt tgagtagctt   300

tccnaggaca aaacaatttc agatgct   327

<210> 72
<211> 304
<212> DNA
<213> Ctenocephalides felis

<400> 72
cattgtggat gaggcaaatc ccatatacca tgatgaagtt tgcttgtttc gaaagaacag   60

ttgaattgtt atacactcat gtggttccca aacccagagc agaatgcact aaaggtgaac   120

aattggttgt cacctttgct gctggttaca ttgccggtgt attctgtgca gtagtttctc   180

atcctgcaga cacagttgtt tccaagctaa atcaagacaa aggagcaaca gccattgacg   240

ctgcaaaaaa cttggctttg ctggtttatg gaagggatta ggacctagga tcatcatgat   300

tggt   304

<210> 73
<211> 232
<212> DNA
<213> Ctenocephalides felis

<400> 73
caaagtgatt taccagagaa gtttgtgaaa gacttgggtg tcctcaacgc tttatcagac   60

aaagtcttgg aattaacccc cgatgaacgc cctacctgtt cttcttccgc ttatcaacaa   120

```
atttcaaatc ccccgaagac accgacaaag ccaaaacaga gctcaccaaa gccatcaaaa    180

ccttgagcga ggcttttgat aaaacctaca aaggcaaagt gctgttcaca gt            232
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<210>  74
<211>  339
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (108)..(108)
<223>  n = unknown at position 108

<220>
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<222>  (284)..(284)
<223>  n = unknown at position 284

<400>  74
gtaacccgat tctacacgag ttggttttaa aactaagctc ggatgacgtt tatgttaatc    60

aataagtatg cagaagaata tgttttctta aaacattgga caggaacnca cgaagaagat   120

caagtccaaa taaagaaacg tcgtgaagtc ttggagcgtt tttgcaaact tattgaattt   180

ggtatcatac cagttaccag cgcgtccttt gttttgatgt attatgtgaa gtgtgaaaaa   240

tgctatggag atatcataaa gaaaatggtt gccacgatgt gcancctcag caggacaaat   300

tgcaccatgg tcatgttcct gagtttggcg aaaatttat                          339
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<210>  75
<211>  339
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (108)..(108)
<223>  n = unknown at position 108

<220>
<221>  misc_feature
<222>  (284)..(284)
<223>  n = unknown at position 284

<400>  75
gtaacccgat tctacacgag ttggttttaa aactaagctc ggatgacgtt tatgttaatc    60

aataagtatg cagaagaata tgttttctta aaacattgga caggaacnca cgaagaagat   120

caagtccaaa taaagaaacg tcgtgaagtc ttggagcgtt tttgcaaact tattgaattt   180
```

```
ggtatcatac cagttaccag cgcgtccttt gttttgatgt attatgtgaa gtgtgaaaaa      240

tgctatggag atatcataaa gaaaatggtt gccacgatgt gcancctcag caggacaaat      300

tgcaccatgg tcatgttcct gagtttggcg aaaatttat                            339
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<210>   76
<211>   188
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (39)..(39)
<223>   n = unknown at position 39

<220>
<221>   misc_feature
<222>   (61)..(61)
<223>   n = unknown at position 61

<220>
<221>   misc_feature
<222>   (182)..(182)
<223>   n = unknown at position 182

<400>   76
cccagaagta tctgctttgg agcacgattt attgaagtng atccagaaac taaagaaatg       60

ntgagcatgc tagatttcaa gaacatcagt ggtctgcaat taactcaacc ccaaacattc      120

aatgctaggc gttaatatga aaatgtcagt tatattctta taaataaata tataactg       180

gnaaataa                                                              188
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<210>   77
<211>   468
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (436)..(436)
<223>   n = unknown at position 436

<220>
<221>   misc_feature
<222>   (442)..(442)
<223>   n = unknown at position 442

<400>   77
ccacagaatt aaggtggttt caaggcccaa gacttgcaga acactttcat gatcaaagaa       60

ttgtcccagt atatttagat atggaggttg aacatccact attcactgaa actattgata      120
```

```
tgtgcttatc tgtttatcca cctgatgccg gacctccaca tgtaaagctt cagttagaat    180

ggtctatgaa agaatatgaa gaaattattc aacatccagg ggatgtttta gaagatcatt    240

ttagtgtgtc tgaagtgctg ccaaaagtga aaatgcaaat cctctaactt tagagcagtg    300

cttagaacat tataccagag cagagactct ctctgatgaa gatgcctgga ggtgtccaca    360

ttgcaaaagt atatgccggt tgttaagact ttgggcttgt ggcattacct gatatactag    420

taatacattt taaganggtc angcagcacc aaattaaggc aatagaag                 468
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<210>   78
<211>   382
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (13)..(13)
<223>   n = unknown at position 13

<220>
<221>   misc_feature
<222>   (67)..(67)
<223>   n = unknown at position 67

<400>   78
ttaagtctgg atncacccaa taacaatggt gggtggaaac gcccatagaa ttcatccaat     60

tccgggnagt ttttttcttc gcggggtctc ttcacaggtc tctaatccct ctatttcgcc    120

ttctggacga tctaatcctg gatgggtgtt gaacaagttg gctacgaacg ctaaattcaa    180

cttataaacg ccattaacaa catctgctgc tgttacaaag cttctgcatt tgagtttagc    240

agcttgttgc agcatgatct cagctctctt tgtcatatct tgttccatga gagcttcgtt    300

cgtaacttga gcttctggag gtgcaatttg tttcaacaga atagtataaa cctctgaatc    360

cgaaatgtcg acttggaagt ta                                             382
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<210>   79
<211>   141
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (55)..(55)
<223>   n = unknown at position 55

<400>   79
gtttgtgctt gcacatataa atattaaaaa tgtctaaaag aggacctggt ggttnagccg     60
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```
gagctaaatt ccgcatctcc ttgggtctgc ctgtcggagc tgttattaat tgtgccgata    120

acactggggc caagaacttg t                                              141



<210>   80
<211>   247
<212>   DNA
<213>   Ctenocephalides felis

<400>   80
gttgacccat aatcggtttg tagttaacac atcttctact tcatctaaac gctcagcaaa    60

ctttgaagca aattcgtaaa tatcatccat caatccaatt gggcatatcc tgtgacacac    120

caccaggacg aatataagca gcatgcattc tagcgcctga tactctttca tagaattcca    180

tcattttttc tctttcctca aaaagccaga aaaagggtgt caaagctcct acatccaatg    240

catgtgt                                                             247



<210>   81
<211>   498
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (11)..(11)
<223>   n = unknown at position 11

<220>
<221>   misc_feature
<222>   (28)..(28)
<223>   n = unknown at position 28

<220>
<221>   misc_feature
<222>   (31)..(31)
<223>   n = unknown at position 31

<220>
<221>   misc_feature
<222>   (72)..(72)
<223>   n = unknown at position 72

<220>
<221>   misc_feature
<222>   (74)..(74)
<223>   n = unknown at position 74

<220>
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<222>   (105)..(105)
<223>   n = unknown at position 105

<220>
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<221>  misc_feature
<222>  (128)..(128)
<223>  n = unknown at position 128

<220>
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<222>  (170)..(170)
<223>  n = unknown at position 170

<220>
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<223>  n = unknown at position 424

<220>
<221>  misc_feature
<222>  (457)..(457)
<223>  n = unknown at position 457

<220>
<221>  misc_feature
<222>  (490)..(490)
<223>  n = unknown at position 490

<400>  81
aatttctccg ntaattggtg gagcctgntg ntcttcttga gtagagattt cagtaagaga      60

attacagttt gngntgccgg aagccaattg cgcttttaat aaagnatttt ggtctttaa      120

ttgattgnta cttatcacta cttcctctag ctgactctgg attgcattgn tttgattgga     180

taactgctga gcttgcatgc gcaattgcat catctgcata tcttgctctc gaataatatt     240

tttatatttg cacaataaag cagactcttg ttcagataac gacatttcag ataaattcaa     300

attattggtt ccatctccaa atgatgttat tgtcttgaca ataagtgcct ctagagcttt     360

gaatagttca caaaattcat aatcaagtaa cagctctcta tacttagtag cttttatagc     420

aggntgcttt gcagctaaac tatacatctc gtgccgngag aattttgata gctttgcaac     480

aaacgtctcn ctccaatt                                                    498


<210>  82
<211>  353
<212>  DNA
<213>  Ctenocephalides felis

<400>  82
agtatacttt gacaaaatat aaatgccaat atgcagtcga agaataggcg ttcttgctgt      60

cttgcacaaa tctccagaca tattgtggga tgttcaaaat tactttttag aagcagcacc     120

aactttagat tttttcgttc ctcggacttt cttcattctg ttcttacgtt ctttacgttg     180

tttacgtgtc tgttgcttct tttcatagag accgtgcctt cctaacctgt gtttaggttc     240

aaatttcttg gcatagtcta atgagtcgta gattaaagca aatccagttg atttgccacc     300
```

```
accaaagttt gtgcggaagc cgaatacaaa tactacatct gatgtaactt tgt          353
```

```
<210>  83
<211>  498
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (205)..(205)
<223>  n = unknown at position 205

<400>  83
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ccaaatattg cagttcctac acgaacaata ttgctgccca tttcaatcgc ttgttcaaag    60

tcgtcagaca ttcccataga taaattaact tcttttggtt ctaaatttaa ttccttgcat   120

aattgctcac gacattgttt taaagtgaga aaatctgggt tgggtcctaa acttgtatca   180

tagccatatt ttccaatagt cattnaacca tcaacaagta ggtttgggca attttctttc   240

acatatttgt atagagttgt tgcctcattt gggtgaacac catgtttttc tatttcacca   300

cttgtattta tttgaatcat aactcttaat ttatcaccat gaattttatt agctgaatct   360

aattttgacc aagcattctg cacactgcgg ctaatttaaa tgagtgaatt gtttcgacca   420

tatatatccc aggtatgtta accaccttat taattttatt tctttgaaga tgacctataa   480

aatgccattt atttctttt                                                498
```

```
<210>  84
<211>  268
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n = unknown at position 4

<220>
<221>  misc_feature
<222>  (35)..(35)
<223>  n = unknown at position 35

<220>
<221>  misc_feature
<222>  (156)..(156)
<223>  n = unknown at position 156

<220>
<221>  misc_feature
<222>  (181)..(181)
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<223> n = unknown at position 181

<220>
<221> misc_feature
<222> (233)..(233)
<223> n = unknown at position 233

<400> 84
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ttgnttccac tttggcccca acagtgagga aaggngtgta ttatttaagt atagcagctg      60

caggattttt ggtattcata attgcattaa caattatacg tttaataata ttctgtataa     120

tttggatcat aacacttggt aaacatcatt tatggntatt tccaaattta acaaaagaag     180

ntggggtctt tgcatcattt tggcctctat ataagtatga atataaagga ggngaagcat     240

tagaaaatac tagcaaaaaa aaaaaaaa                                         268
```

<210> 85
<211> 223
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (19)..(19)
<223> n = unknown at position 19

<400> 85
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aggttcaaca ccaactgtng agtatccaac caatcttgcc aaaggtttta agccatgctg      60

tttgcaggat tcttctgatg ctaaaacaat cgctgctgct ccatccgata ttccggaagc     120

agatccagct gtgacaacgc catctttctt gaaaattgta ggtaatttgg ataaactttc     180

tagagttgtt tgtggtcttg atgttcatc tacacagaat tgt                        223
```

<210> 86
<211> 252
<212> DNA
<213> Ctenocephalides felis

<400> 86
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attgccttct ttatctagtc gggttttcat tcttgcgata aaatcgttgg caatttcttc      60

aatccatcca acatattgcc ttgtaatctt atgctgcatc atgggctgat ttactactga     120

ccgaattttt tgccattctt ccccttgtga gtgaattaga ccataaacag atttgaaaac     180

ttctggtctt ttttctctca agtaatattc tcgtgattca aaagctggtc tatcaggcca     240

aggcccttca gt                                                         252
```

<210> 87
<211> 235

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<212> DNA
<213> Ctenocephalides felis

<400> 87

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aatccaggga gaccatcaga cttgaagatt ttggtcaagc agttgcccaa tccagagaat      60

tcacgttgac cagcgccttt acctacatca gcggccaatc tggtacgggc gaaatcaagt     120

gggtagacga agcacaatga tgtggctcca gcagcaccac cagatgccaa gtttcctgcg     180

aagtaacgcc agaattgggt cttcttgtca actccaccca agaaaacttg cttgt          235
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<210> 88
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (59)..(59)
<223> n = unknown at position 59

<220>
<221> misc_feature
<222> (365)..(365)
<223> n = unknown at position 365

<220>
<221> misc_feature
<222> (404)..(404)
<223> n = unknown at position 404

<220>
<221> misc_feature
<222> (456)..(456)
<223> n = unknown at position 456

<400> 88

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ataaagtatc cgttcaatgg taacgtttca gcagcaaacc aataattagt aacatctana      60

aaaggagctg ataatgacaa agctgctaaa aaacaggtat gtcttaaagc aactcttcta     120

cataatgcag gatcagtaac tgccatcatt ctatacccag ctctactgta atccggtctt     180

aaattccaag ataatgcatt aaaatgtgga aattgccacg tatataaaag acctcctaag     240

ataaatgctc ctgcacttaa attaccggaa caagcagccc aacccattag gggtgggatt     300

gctccgacga ttgatccaac ccaagtattc agaatactta ttcttttcat tggagtatat     360

acggnggtat ataatattaa attagctgct cctaatcctg ctgntaaacc atttacacca     420

aaatatacat acctatcccg tagatgcagc aaccgnagca aaacctacag catgtatgga     480

cttaaaatcc cctgacta                                                    498
```

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<210>  89
<211>  293
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (24)..(24)
<223>  n = unknown at position 24

<220>
<221>  misc_feature
<222>  (50)..(50)
<223>  n = unknown at position 50

<220>
<221>  misc_feature
<222>  (92)..(92)
<223>  n = unknown at position 92

<220>
<221>  misc_feature
<222>  (282)..(282)
<223>  n = unknown at position 282

<400>  89
tttttttttt tttttttttt tttngcacat tatattaata taatcacttn ggccttttta      60

gacttgatct tcctcatgta gaattccaat tnttttcctt ctaagatata accatctgca     120

cgtccacatt gtccaggacg agaggaaaca gcagctaata gacgaccagt agcaaactgt     180

tcttccagag cttgctcaac tttagcaaca cgttgtcttg ttgcatattt tttagccacc     240

ttcttactgc gttttttatt cataactgct tcttcttcag gngtgagctt agt           293


<210>  90
<211>  498
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (28)..(28)
<223>  n = unknown at position 28

<220>
<221>  misc_feature
<222>  (66)..(66)
<223>  n = unknown at position 66

<220>
<221>  misc_feature
<222>  (73)..(73)
<223>  n = unknown at position 73
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<400> 90

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cattcatgca aatggggcat cattttttntt tatttgtatt tacattcata ttggacgagg      60

aatggnatta ttntagttac aaattacatg aaacttgatt tattgggtta ttaattttat     120

ttttagtaat aggaactgct tttataggat atgtattacc ttgaggacaa atatcatttt     180

gaggagcaac tgttattaca aacttaattt ctgctattct atatattgga aattcaattg     240

ttcaatgatt atgaggagga tttgcagttg ataatgctac tttaactcga ttctttatga     300

ttcattttttt attaccattt attatttctg cttttgtaat aattcatttg cttttttcttc     360

atcaaactgg atctaataat cctttaggaa ttaatagtaa tatttacaaa attcctttttc     420

atccttattt ctctctaaaa gatttattag gatttatttt tttatttaca atattaatta     480

tattaactct tattaatc                                                    498
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<210> 91
<211> 339
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (46)..(46)
<223> n = unknown at position 46

<220>
<221> misc_feature
<222> (208)..(208)
<223> n = unknown at position 208

<220>
<221> misc_feature
<222> (223)..(223)
<223> n = unknown at position 223

<220>
<221> misc_feature
<222> (234)..(234)
<223> n = unknown at position 234

<220>
<221> misc_feature
<222> (289)..(289)
<223> n = unknown at position 289

<400> 91

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gggatatatt ataagatctt tattttataa taaattatat aatcgntatt tacttgaaag      60

acaaaatatt gaaattattt gaacaattct acctgcattt atattaattt ttattgcttt     120

accttctctt cgactttttat atttattaga tgattcaaat aggcctttaa tttctttaaa     180

agcaattggt catcaatgat attgaagnta tgaatatact gantttaata atanttctttt    240
```

```
tgattcatat ataattccat ctaatgaatt aaatttaaat tcatttcgnt tattagatgg     300

tgataatcga attatcttac ctattaattc acaaattcg                            339
```

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<210>  92
<211>  234
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (49)..(49)
<223>  n = unknown at position 49

<220>
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<222>  (59)..(59)
<223>  n = unknown at position 59

<220>
<221>  misc_feature
<222>  (61)..(61)
<223>  n = unknown at position 61

<220>
<221>  misc_feature
<222>  (68)..(68)
<223>  n = unknown at position 68

<400>  92
cagtgcaaca gcatttaacc atgcttatgc tgataccggt ctattctgna ttcatgccng     60

ngcacctnca acacatatac gggggggtaac agaagtgctc tgcagagaac tagttgccat    120

gtctacagtt ccaggggctc aagaactaag gagagcaaaa acacaacttc aatcaatgtt    180

attgatgaat ttggaagctc gtcctgtggt atttgaagat ataggtagac aagt          234


<210>  93
<211>  434
<212>  DNA
<213>  Ctenocephalides felis

<400>  93
ccaatctttt taaaggtaat ggcttatctt ctgtgatacc tcttgctgtg gaaagagaag     60

caacttgatc acaataaaca tcagcaccta attcttccat atcaacttct acatcagatt    120

ttgctatttt tgtggcttca tctacttctt tcctaacttg cgtttccatt tccttcagtt    180

cttcaggtgt agctagttct gatgaaacca ttctttcacg gaatgaagtg attggatctc    240

ttgtctgtct tacttcttga atttcttctc ttgttctgta actggtgcca ggatctgaca    300

ttgagtgccc tgaatatcta taagtcatag tttctaaaac aattggacct tttccagttg    360
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```
tgcaatgttc aattgcatat tttgatgctt cacgcaccgc taacacatcc ataccgtcaa      420

cccaaattcc aggt                                                        434
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<210>    94
<211>    347
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (58)..(58)
<223>    n = unknown at position 58

<220>
<221>    misc_feature
<222>    (243)..(243)
<223>    n = unknown at position 243

<400>    94
aatggaaaga ggatgtcaca gaagcttatc ctggcaaagg gcaagcgcta ttccaagnat      60

tccagtggct gatgtggttg caggaagccg aatctactga tgaggatgga gaagcttaag     120

tgtggaaata agaaacaaaa aatatgaaaa actctgataa aaaggaattg taagtttagg     180

tcacccttca tattgaacca atataaatgc ttaacatctt ccaataaacg aattatatat     240

ggntttaatg aagtcagatg aaaggatgaa cagcatatta tctagaagaa aaactaaagt     300

atgctcgtca cacttcggaa aatgctaaga atgtttattt gactcgt                   347
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<210>    95
<211>    440
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (38)..(38)
<223>    n = unknown at position 38

<220>
<221>    misc_feature
<222>    (129)..(129)
<223>    n = unknown at position 129

<220>
<221>    misc_feature
<222>    (134)..(134)
<223>    n = unknown at position 134

<220>
<221>    misc_feature
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<222> (164)..(164)
<223> n = unknown at position 164

<220>
<221> misc_feature
<222> (188)..(188)
<223> n = unknown at position 188

<220>
<221> misc_feature
<222> (230)..(230)
<223> n = unknown at position 230

<220>
<221> misc_feature
<222> (239)..(239)
<223> n = unknown at position 239

<220>
<221> misc_feature
<222> (289)..(289)
<223> n = unknown at position 289

<220>
<221> misc_feature
<222> (303)..(303)
<223> n = unknown at position 303

<220>
<221> misc_feature
<222> (307)..(307)
<223> n = unknown at position 307

<220>
<221> misc_feature
<222> (349)..(349)
<223> n = unknown at position 349

<220>
<221> misc_feature
<222> (417)..(417)
<223> n = unknown at position417

<220>
<221> misc_feature
<222> (419)..(419)
<223> n = unknown at position 419

<400> 95
gaaaggacca ttaatttata ataattattt taatttgnga aaaaaaaaaa aaaaaaaaaa   60

ggggggggctt gtacaagctt tcttttttttt tttttttttt ttggctatat cgaaatttat   120

tactcaagnt tttntacagc tttaaacaat tattgatcct tatntttgcc attgtagtag   180

ggcaagtntt gtaaaactaa tttccaatca gtgaagtagc aaagggcatn tgcaccagnt   240

agaccaaaac cagcagacgt tcctacccac tgttttgctt gctcaatgng tttactcccg   300

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```
agntttntca aaatactcat tttgcttact taaatcaatg ctcctcggnt tcaataaata    360

attttaagcg cagaatttag ctttgcgcta ttgtttcaaa aaaaaaaaat aaaaaanana    420

aaaaaaaaaa aaaaaaaaaa                                                440
```

```
<210>  96
<211>  498
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (493)..(493)
<223>  n = unknown at position 493
```

```
<400>  96
tttccttgtg ctaattcaat tgttcgggga tgaagtgcca gctctggaac cccttgaaca     60

acttcagaaa ccaaatcagc aactctagcc tgacttgtct gtgaaccagt ttgtccaggt    120

gtgttagcag aactttgaat gataagagtt tggttggcag caagactctg tccacacata    180

tttctccgtt tatgagatgc taaatcatta ctttgggcaa aagctctacc acaaaccata    240

caagcgtagg gcttttcacc tgtatgtgtc ctcatatgta tagctaactt atcagatcgt    300

gcaaatcctc tgttacaaac actgcataca aatggttttt ctcctgtatg ttttctcata    360

tgcaatgtaa gatctgtagt tcttggataa cctttaccac agattttgca aaaatttgtc    420

atttgaccag tatgtctccg catatggacg gctaaattac ttcttgaact gcaacttttа    480

ccacaaacac tgnataat                                                  498
```

```
<210>  97
<211>  186
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (30)..(30)
<223>  n = unknown at position 30
```

```
<220>
<221>  misc_feature
<222>  (63)..(63)
<223>  n = unknown at position 63
```

```
<400>  97
accacgaggt gcaggcggaa ttccagttan tttaaaggtt cctaaacgat tgttatcttt     60

ggncataacc ctttctcctt catagacttg aattgttact gcaggctgat tgtctgcatg    120
```

```
agtgctgaag gtttgtgttc ttttacatgg aattcttgca ttgcgttcaa taatcttagc    180

cattgt                                                                186
```

```
<210>  98
<211>  270
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (36)..(36)
<223>  n = unknown at position 36

<220>
<221>  misc_feature
<222>  (40)..(40)
<223>  n = unknown at position 40

<400>  98
catattttac aactgtatga gtttggatta aaaatnaatn cctatgtata ataatatgaa     60

aataactatt ataattacaa caattatagt tttgaataaa aatcagttat aaaatcacaa    120

aaactgattt atattttaca gcaaaattgc ttataattaa gcttcttatt ataattaatt    180

ttttatttca tttctttgca agctcatttg ataaccaatc gaggccttca tataaaccgt    240

gcccttgtgt tgcacatgta gcttgaatgt                                     270


<210>  99
<211>  279
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (23)..(24)
<223>  n = unknown at positions 23 and 24

<400>  99
agattaataa atttaaatat gtnnaacaaa ttaaactggc aaggaacttt gcactatgag     60

cttattgatg taatgatttt tcactggtat cgttatctat aagtaaaatg ctataattaa    120

tcttaaaagg ctaaaccggc ttcagcataa gttgtgaaga tcttttcaat agagtttaca    180

tatgctgctg ttctcaagtc caatcccaaa ttgaatttca ttgctgtctt cacgatagct    240

cttgcagacc tttccattgt gtagtccaag ccagaatgt                           279


<210>  100
<211>  193
<212>  DNA
```

<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown at position 31

<220>
<221> misc_feature
<222> (33)..(33)
<223> n = unknown at position 33

<220>
<221> misc_feature
<222> (38)..(38)
<223> n = unknown at position 38

<400> 100
cgacacgccc caagttaccg acctccagtg ntnatgcnca agtttcctgg aatcaaactt   60

aatataatct gtgatcttag aactggcaat atccacctga acagtatcgt ttactttgat   120

taaaggatct gggtagcgaa tggtgcggcc atcatgtgtt gtcaagaatg gaatattttt   180

gggtcccatt tgt   193

<210> 101
<211> 110
<212> DNA
<213> Ctenocephalides felis

<400> 101
tcatgaatat caagagtcta ctataggtgc tgcgttttta actcaaactg tgtgtctgga   60

tgacacaacg gttaaatttg aaatttggga tacggctgga caagaaaggt   110

<210> 102
<211> 323
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (5)..(5)
<223> n = unknown at position 5

<220>
<221> misc_feature
<222> (16)..(16)
<223> n = unknown at position 16

<220>
<221> misc_feature
<222> (23)..(23)
<223> n = unknown at position 23

<220>
<221> misc_feature
<222> (66)..(66)
<223> n = unknown at position 66

<220>
<221> misc_feature
<222> (75)..(75)
<223> n = unknown at position 75

<220>
<221> misc_feature
<222> (82)..(82)
<223> n = unknown at position 82

<220>
<221> misc_feature
<222> (406)..(406)
<223> n = unknown at position 406

<220>
<221> misc_feature
<222> (436)..(436)
<223> n = unknown at position 436

<220>
<221> misc_feature
<222> (441)..(441)
<223> n = unknown at position 441

<220>
<221> misc_feature
<222> (471)..(471)
<223> n = unknown at position 471

<220>
<221> misc_feature
<222> (499)..(499)
<223> n = unknown at position 499

<400> 102
aagcatcagg aggccactct gcaatggcta aaacagtcgg tttcccagca gcaattgcca   60

ccaggatgat tttggatgga gaaatccaaa aacgtggagt tgttttgcca ttcagtgaag   120

atattttata ggccaattct tagcagattg agagctgagg gacttcatgc cacagaaacc   180

gttaaagttt tgtaagatgg aggagaaaca ctttgtttta ttatcgtgaa ttcattaatc   240

gattttgaaa atatgactgg ctctttagc attatacata tttttaagct cgctttgata   300

tatcaagaca taagtattta ctt   323

<210> 103
<211> 462
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (23)..(23)
<223> n = unknown at position 23

<220>
<221> misc_feature
<222> (36)..(36)
<223> n = unknown at position 36

<220>
<221> misc_feature
<222> (426)..(426)
<223> n = unknown at position 426

<220>
<221> misc_feature
<222> (431)..(431)
<223> n = unknown at position 431

<220>
<221> misc_feature
<222> (442)..(442)
<223> n = unknown at position 442

<400> 103
ttttgatgtc atataaatgc cancaattaa accaantaga ccaatagcag aaccaaagat   60

ttcaacaatg agaattttga caaatagtgc agaattggca gcatcagcaa gagctgctcc   120

agatccaaca ataccaacag cgataccgca gaataaattc acaagaccaa cagccaaacc   180

agctccaaaa agaacataac cacccatcca atttgcttct ttatatcctg cttttttcaaa   240

aacagatttg tctgtgtatt ccgctaacag tcctgacaga acaattgctg taattaaacc   300

ataaatagca acagcttcac agaaaataac tgaaattaag ttttttgttt tgattctggg   360

cgctttcaca ccacctccta caatggatgt gcctgtggta tgaattccaa caagctgctc   420

caacanctga naatgctacg gntaaacaat tcctaaggga gc   462

<210> 104
<211> 484
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (16)..(16)
<223> n = unknown at position 16

<220>
<221> misc_feature
<222> (25)..(25)

<223> n = unknown at position 25

<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown at position 31

<220>
<221> misc_feature
<222> (39)..(39)
<223> n = unknown at position 39

<220>
<221> misc_feature
<222> (89)..(89)
<223> n = unknown at position 89

<220>
<221> misc_feature
<222> (116)..(116)
<223> n = unknown at position 116

<220>
<221> misc_feature
<222> (287)..(287)
<223> n = unknown at position 287

<400> 104
agccgtggaa aacctnacgg aaccncaatt nctttcggna gcccgcccag ggacgactac   60

agggaacaaa tgtcgatgaa gcccgtttnc ttattaagga aagcaaacta aagatngtag   120

cccaagatga tttggatgat gcagctgcat tagttgtcag tttatctcat tacatatata   180

ctttgcggtt aatttaatga gatatgcata gtatatatta atctttcttt tttttcactg   240

cacatgcaaa gctaaattta gccagcagaa tgtgttattc aacacangtc gtattgttta   300

gtcgtgtaat gtcaacatgt attgcccatt ttgattggat tccttaatac aggatatcag   360

caccacttgt taagtttgaa actctaggta ggatatgatc atatttatta taatgcacat   420

ttattatgtt actaatgttc aaaatgattg atgatcgatg attgatatca ttgtcagtaa   480

tagt   484

<210> 105
<211> 373
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (55)..(55)
<223> n = unknown at position 55

<220>

```
<221>  misc_feature
<222>  (330)..(330)
<223>  n = unknown at position 330

<400>  105
gaggctcatc agcgtggtcc acttctttgg acggcaacac ttcgtaaggt tcctnggact      60

ctaacggatc actgagtcca acctcgtttc gcgcaaatat tcgtatcaag tattcgttct     120

gctcctgtaa atccctgata gtaaaattct gaatagaagc ctgaacgcgt cctacttcca     180

tccacatagt tttcttaaca tctctaatag ctatgttgta accctcgatg ggagcaccac     240

cgtcggattc cggaattccc caacttatca caatattatt tggacctaca cttctcatct     300

ctaagggggc agttggagga gatggcacan ttgcgtgagt ttttagagta acattccttg     360

ttactgcggg cgt                                                        373
```

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<210>  106
<211>  231
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (60)..(60)
<223>  n = unknown at position 60

<220>
<221>  misc_feature
<222>  (88)..(88)
<223>  n = unknown at position 88

<220>
<221>  misc_feature
<222>  (119)..(119)
<223>  n = unknown at position 119

<220>
<221>  misc_feature
<222>  (157)..(157)
<223>  n = unknown at position 157

<220>
<221>  misc_feature
<222>  (192)..(192)
<223>  n = unknown at position 192

<220>
<221>  misc_feature
<222>  (232)..(234)
<223>  n = unknown at positions 232, 233, 234

<220>
<221>  misc_feature
<222>  (263)..(263)
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<223> n = unknown at position 263

<220>
<221> misc_feature
<222> (280)..(280)
<223> n = unknown at position 280

<220>
<221> misc_feature
<222> (284)..(284)
<223> n = unknown at position 284

<220>
<221> misc_feature
<222> (342)..(342)
<223> n = unknown at position 342

<220>
<221> misc_feature
<222> (354)..(354)
<223> n = unknown at position 354

<400> 106
tattccttgt ctggcacata atattttcgg ctttgatatc caaatgaatg atattctttn   60

ggtgcatatg gttaacacct tcacaaantt gtctcatgta atctatgact tctgcttcng   120

acatacgata accgtcagcg gtgatgcgtt caaacanttc accaccagat aagaattcca   180

aaatgagaac cntttcatca tcatcttcga atgcatcatg aagattaatc a   231

<210> 107
<211> 411
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (145)..(145)
<223> n = unknown at position 145

<400> 107
aaaaaaatgc aagaagaagt gtaggcataa tcactttccg cctccctctc gtatcggcta   60

aaaatcccca taaatgtgaa ctgcttataa tacctataaa agctatagcg cttaatattc   120

cttttgtttt tgttgttaat tccanatcac attgtgctga aggaacgaca aaactcattc   180

caagagtttc catcaaaaca catactaata cgcatccact cacgaccaga agaaggtaat   240

tgaattttcc aaaacctgtg agtgccaacg catcttcaaa ctgccttggt tttggttctt   300

tggaagctat tatttgaatc cccgtgttac tgtccatatt tattaatttc caaactacag   360

attcaattaa accgttttgt ttaacagtct aacagtaaaa aaaaaaaaaa a   411

<210> 108
<211> 261
<212> DNA
<213> Ctenocephalides felis

<400> 108
tctcggtgga atcgatttct gtagtttcgt cgttaactga caatattaga gccaataaat   60

atttcttaga aacatcaaca gcccacgtag tctgtgcaag attggtagtt ggtatatccg   120

taatgataat ctgaggttgt tgctggttta ccgattgttg ctggtttatc gattgttgct   180

ggtttagcaa ttgctgctgt tgccagagaa atttttgttc ctgaacttttt tggtattgtc   240

gcaactgctg ttgatgtaag t   261

<210> 109
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (33)..(33)
<223> n = unknown at position 33

<220>
<221> misc_feature
<222> (62)..(62)
<223> n = unknown at position 62

<400> 109
atttgtatgt aagaaataat tcacatctat tcntaatgaa gaccaaatag ataattgaaa   60

anccacaaaa acaacatccg taggttcatt attttgatca tatttaaata gcatgttgtt   120

ggtccacaaa tcaccatgat ttaatacatt tatacagcca ggacgcattt tagttgaagc   180

cattgctctt tggataattg tatccttcat attatataat tttttttgaat attttttgata 240

gccatcccaa attgatgtag cttctgaaag ctccaccagc gcttttaaca gcaattgatt   300

catcagatgg tcttcagatt ctgtttgtat aaaacctaat gtgtaatcat caactgaatg   360

aggatccttt agctccatga caatggatgc agcatgcata tgtgcaattt tgtccataag   420

taaagtagaa tgtgcaatat ctaggcctct tgtcctttttt cccatttttgt aaccacctat   480

tgccaaatcc gtcataac   498

<210> 110
<211> 356
<212> DNA
<213> Ctenocephalides felis

```
<220>
<221>  misc_feature
<222>  (142)..(142)
<223>  n = unknown at position 142

<400>  110
tttttttttt tttttttttt tttttttcct cttttattag tataataata tctacaatca      60

tctaattata tcaaattaat tattaatgat gtccatgacc atgatgatca tctttaggat     120

tcattttttc ccacgccttc tntaatgcga ctgttactac tgtagcagcc agtccccatt     180

tgaatcctcg gaataaaaag cccatcgttc ggctccttct tgttccaaat tcttttgtat     240

taaatcgcca tacttcattt ctcagccatg ggtctttaag tcctttactt gcaagagcct     300

tttggacttg aactaattca ggggcatctt caactttgta atcctataa tctggt         356


<210>  111
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (498)..(498)
<223>  n = unknown at position 498

<400>  111
gctcattgag tatccgcgaa tgaaactaaa tgagctttca acattggact taagcaacaa      60

tgattttttca atattaccag aacaactcga cataaatcta atgcccaatt tgagacacct     120

ttcactaagt ggaaatccaa ttcgcaaaat taaatttgaa aatatccttt ccttggaaac     180

gctcgagata aacgatatgt caagacttac agaaatttcg ggactcgaaa acatacatgg     240

aagaatattt gtcgaatcaa ataaaccttg tgttcatctg agcatttcaa attgtgaatt     300

gctggttaaa atacaaaatg atgctttga aaatataaat ttatgtagtt taaatttgag     360

tcataacgct ctgaaagaag tgccgctctc ggtgccaaac gacatagaac ttgatttaca     420

gggaaaccct ttgatatgct cttgcagcct acaatggttt tagacgatat attaccattt     480

tgtataaaca tcacccanac                                                  500


<210>  112
<211>  189
<212>  DNA
<213>  Ctenocephalides felis

<400>  112
tcatcgttca ggtcagggtg cttttggaaa tatgtgtagg ggaggaagaa tgtttgcacc      60

caccaaacct tggcgcagat ggcatcgcaa gatcaatgtg aaccaaaaac gctatgcttt     120
```

```
ggtttccgca attgctgctt ctggtgtgcc agctttagtt atgtctaaag gacatgttgt    180

tgatcaagt                                                            189
```

```
<210>    113
<211>    131
<212>    DNA
<213>    Ctenocephalides felis

<400>    113
aacaagtgtc tctggtcata aattatgatt tgccttccaa cagggaaaac tatatccaca     60

ggattggtcg aggtggacgt ttcggtcgta agggtgttgc tataaacttt gtcacagatg    120

aggacaagcg t                                                         131
```

```
<210>    114
<211>    102
<212>    DNA
<213>    Ctenocephalides felis

<400>    114
attccctgaa taagagggaa taatcgctct ccaagcatct gtttctgttc atgagccggt     60

gctgcggcaa gcatggaagc ggtgagtggt tcttggcctt gt                       102
```

```
<210>    115
<211>    299
<212>    DNA
<213>    Ctenocephalides felis

<400>    115
gcgaaagaac atgtcgtata ccgtctgaaa gaagtaatga ggactggcag gactcaaaaa     60

atggcccttc cagcgaaaaa gaagcacatg cttatgatgg gcctcccggc atggaacccg    120

atggcgtcat cgaaagtaat tgggatgagg tggttgataa tttcgatgat atgaatttaa    180

aagatgaatt acttcgtgga atctatgctt atggttttga aaagccttca gcaatccaac    240

agcgagccat catgccatgc atagtcggtc atgatgttat cgcacaagct caatctggt    299
```

```
<210>    116
<211>    403
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (60)..(60)
<223>    n = unknown at position 60

<400>    116
```

```
cccggtattg ctgaccgcat gcaaaaggtt aatcactgcc ttggccccat ccaccatggn      60

agatcaagat catcgctccc ccagaaagga aatactccgt atggatcgga ggatccatct     120

tggcctctct ctccaccttc caacagatgt ggatctccaa ggaagaatac gacgaatccg     180

gacccggaat tgtccaccgc aagtgcttct aagcgctttc taccctctag caaacaccaa     240

agaaagtgcc gtccggaaga aatggcggtt aagaaattat gcgcggccca tcgcgctttg     300

cgcatcgtaa ttgcgcttcc ggtcaatatc accggatatg ctattgcacc agcgaccatg     360

tgcacaaaat tatttgtaat ttattaattt attattggac tgt                       403
```

<210> 117
<211> 229
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (181)..(181)
<223> n = unknown at position 181

<220>
<221> misc_feature
<222> (185)..(185)
<223> n = unknown at position 185

<220>
<221> misc_feature
<222> (187)..(187)
<223> n = unknown at position 187

<220>
<221> misc_feature
<222> (192)..(192)
<223> n = unknown at position 192

<220>
<221> misc_feature
<222> (205)..(205)
<223> n = unknown at position 205

<220>
<221> misc_feature
<222> (207)..(207)
<223> n = unknown at position 207

<220>
<221> misc_feature
<222> (211)..(212)
<223> n = unknown at positions 211 and 212

<220>
<221> misc_feature
<222> (215)..(215)

<223> n = unknown at position 215

<220>
<221> misc_feature
<222> (217)..(218)
<223> n = unknown at positions 217 and 218

<220>
<221> misc_feature
<222> (222)..(222)
<223> n = unknown at position 222

<400> 117
caggatttca tggtcttcat gttttaattg gaacttcttt tcttattatt tgtttactac   60

cacttagatt atttcatttt aatcctaaac atcatttgg atttgaagca gcagcttgat   120

attgacattt tgttgatgta gtatgattat ttttatatat ttctatttac tgatgaggtc   180

nattnancag anaggaaacc tgtanancca nntgnannaa anaaaaaaa   229

<210> 118
<211> 469
<212> DNA
<213> Ctenocephalides felis

<400> 118
atttcggacg accccaaaaa taatatcgac gaggaaaaac atttgaaagt cgtgcaattt   60

aaggacaaca gcccgaaga cgacgcggtg gaaatttccg aatatttcag atacaatgac   120

gttatcaaag aaggcgatat tttagtgcgg gctccggcgg aacgacttat tcacaaacta   180

aaggacggcg acgactgcgt ctgcatgaac tggagggttt gcaaagggaa aataatcgac   240

ggtcacccgt gtcctcagag ttacatagac gtctgctgcc aaactgagca gaattttgat   300

gaagataaaa acgaggagca gttgacattt aggaaattat tgttatcgaa acaataatca   360

tgatatttt tgtaacattt ataagtgcac ttgtgaaatg taccaaactt tgcaatttgg .   420

taaataataa ataaacaaat ttgtttaaaa aaaaaaaaaa aaaaaaaaa   469

<210> 119
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (428)..(428)
<223> n = unknown at position 428

<220>
<221> misc_feature
<222> (444)..(444)

<223>   n = unknown at position 444

<220>
<221>   misc_feature
<222>   (460)..(460)
<223>   n = unknown at position 460

<220>
<221>   misc_feature
<222>   (467)..(467)
<223>   n = unknown at position 467

<220>
<221>   misc_feature
<222>   (475)..(475)
<223>   n = unknown at position 475

<220>
<221>   misc_feature
<222>   (491)..(491)
<223>   n = unknown at position 491

<400>   119
gttcttactt atatctagat tatcaggttt atcgagctct agaatacgtc taagaatacc   60

atattgtata ctcatttatt aaatggaaca tattttaaa gtgaatcaaa ataaaattcg   120

tatttgacac tttggtattt gtaaacaaaa aatgagcagc aaatcaacca atagtcacca   180

atatagtagt atctgtctag aagtgactca aatgataaac acaactgtga tcataaaaat   240

tcaataaaag acgagaaat caagatcatg ttaaatcaaa gcatcgttca agatctcgta   300

gtcgttcata tgatagaatt gattcacatg atagattttc tagtaaagaa attacaacag   360

agattcaaac tttctcatag tatgaaaaag ttccaactta gaatcatccc gttcaaaaac   420

attgcttngc cttttccaca catnagccac cttggggccn aggatantag catangcaca   480

aacttgaatt ngctgatcaa   500

<210>   120
<211>   218
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (186)..(187)
<223>   n = unknown at positions 186 and 187

<220>
<221>   misc_feature
<222>   (197)..(197)
<223>   n = unknown at position 197

<400>   120

ctcgagtttt tttttttttt ttttagaaat ttactgaaac agaatacttt agattaatta   60

ttatatacag taaacaatct tgatgtgata gtttattttt gagcaatata tttatctctt   120

aggcaaaata ttattttatg cataactgta catttattat caataaaaaa tataatatga   180

ccacannttt tttaaanaaa aaaaaaaaaa aaaaaaaa   218

<210>   121
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (460)..(460)
<223>   n = unknown at position 460

<400>   121
gttattttct aatctgtacc atcacagttt actcgagaag ttatggatga tttcaatttg   60

ctgttagaat tgccatgtcc agataaaaga attgcagaaa tattatacga agtgttgatg   120

atcgacgcgg aaccttcccg gagtaccgtg aaaaagaagt ttacattaga aaacaacgtt   180

ataaaagtgc cgttgttcaa gtccaaatgt gaaaaattta cgtgtcgccg tgaatggttt   240

gtttgacaat ttttatttgg ttctgcaaac gattgatact tttgggcccg caaaccccac   300

ctatgattac tattttgctg atttaattgc ttccaagtga ttcttagcaa ttcaaaatgc   360

cagaacacac acctgcccct acaccgagca gagcggtgta tggatttgca ttatatttaa   420

caatgaaatc ttgttttttg cttatgttgt atggtctatn gtacctgatg atattctctt   480

atgctgaatt atattatctc   500

<210>   122
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (490)..(490)
<223>   n = unknown at position 490

<400>   122
tataaatgat ttaattcaga agcaaggcag ttatgtaatt ttttgaatat atgtgataag   60

aaaaacattt aaaattatat tagtgttaag tagaatttac gtgaaagtaa gatgtgggtt   120

tattttaata gaattttgc tgcggtgttg attatattgg cagtgtcagc aagggaatcg   180

aattcccaaa aacttactgt tgatggattt aaaggtgatc ctatagaaga atttcgtcag   240

```
gaatattcta cgtttttaaa aaagggcgaa gtatcaaaga agttacaaaa acttactgat      300

ttactattaa aaccgagtga tgaaaatgat tgtgcaaaat gccaaatttt ggcaacattt      360

gcaatcgaaa gaagacgtaa tgggacttcc aatgcagaga tgaattcttt gatgaatgat      420

atgtgtataa gattaaatat atggatagga aaatgtgtga aaacatgata tatatgcatt      480

tggatatcgn ctgatataat                                                  500
```

```
<210>   123
<211>   500
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   123
ggatgataag gatcttgtat tcatcaccaa ccccgatcaa agagaaaaag attgtaaagg       60

tttcttgatc aatttgattg attcacctgg acacgttgat ttctcatctg aagtaactgc      120

tgcacttcga gtaactgatg gagctcttgt ggttgtggat tgtgtttcag gtgtgtgcgt      180

tcaaactgaa accgtattgc gtcaagctat tgctgaacgt attaagcctg ttgtgttcat      240

gaacaaaatg gaccgtgcac ttttggaatt gcaattggac tctgaagaac tgtaccaaac      300

tttccaacgt attgtggaaa atgtgaacgt tatcattgcc acatactctg atgatactgg      360

tccaatgggt gaagtcgtgt tgatcccagc aaaggttcag tggttttgga tctggcttca      420

tggatgggct tttactctaa aacaattctc tgaaatgtat gctgagaaat tcaagattga      480

tgtactaaat tgatgaacag                                                  500
```

```
<210>   124
<211>   500
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (86)..(86)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (134)..(134)
<223>   n = unknown

<220>
```

```
<221>  misc_feature
<222>  (177)..(177)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (189)..(189)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (254)..(254)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (285)..(285)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (306)..(306)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (332)..(332)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (339)..(339)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (411)..(411)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (419)..(419)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (485)..(485)
<223>  n = unknown

<400>  124
gtttngtttc ttattgttta gctatttatt atcaaaatat taaatcttat aatgctggta      60

tatcaactgt tttaataaat cgaatngggg atgtgacttt attaattaga atttcttgga     120

taataaatta tggnagttga aattatttat tttatataaa atatataata aataatnttg     180

aaataatcnt aattatattt ttgatccaat tcctgcaata actaaaagag cacaaattcc     240

tttttcttct tggntaccag ctgcaatagc tgccccaact cctgnttcag ctttagttca     300
```

ttcttnaact ttagtaactg ctggggtata tntaataant cgatttagag aattattaat   360

aaaaagtaat ttatttattt atttattatt aatttctaca ttaactatat ntatatcang   420

attgggagct aattatgagt tgatttaaaa aaaattattg cttatctaca ttaagacaat   480

taggnttaat aataagaagc   500

<210>   125
<211>   436
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (346)..(346)
<223>   n = unknown at position 346

<400>   125
cgccaacctc agatatagtg gcaggtcctg gttccaatat tcgaataatg ggtggttcca   60

actcgcgcct aaacgcacga tatgctacca acaacttct gatgagccat gctgagaaac   120

gaattaatcg gaatagttac tccacggata tttattaagt tatttcataa taagtgcttt   180

gacatgttag attaaaagct ttattttctg aagcaacttt aaattttagg aatttgtatt   240

ctacaaatgt tgtagaacaa aacggatata aagatacgca caaggtgcat aaaatagaag   300

aaaatgaaaa agtaagccaa agatttagca aatgttcaaa tattgnagtt tcaaatattc   360

tctcaattct ttttgataaa tatctaattg cgaattaata aaatgtctga attattaata   420

ataaacagat tagcag   436

<210>   126
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n = unknown at position 6

<400>   126
ctggcncttt gtatacatac cccgagaact tccgtgctta caaatcttta atcgctgcca   60

aattttcggg tgctaatgtt aaagtagcag ccgattttgc attcggagag acgaataagt   120

cagaatcgtt cctcaagaag ttccctgcgg gaaaggttcc agcgttcgaa agcaacgatg   180

gaaaatactt aagcggcagc gatgctattg cttattatgt atcaaatgcc caactacgtg   240

```
gcgcctccga cttggaaaag gctcaaattc tacaatgggt agattttggc aatggagaga      300

ttgtgccccc atcgtgtgca tgggtgttcc caattttggg aataatgcag ttcaataagc      360

aaaccactga ccgtgcaaag gaagatgtca aaagtgccct ttccgtcctc aatactcatt      420

tagtaaataa cacatatctc gtcggtgaaa gaataacttt ggctgatatc agtgtgttct      480

gtcattactt cacctgtcca                                                  500
```

```
<210>  127
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (468)..(468)
<223>  n = unknown at position 468

<400>  127
gagttcttta ccctcactga aaattgcttt attttcctca aattgcataa tttaaaaatg       60

cttttgacaa tagttcattt gaacatgtgc acattttaaa tactttattt tatttaagtg      120

tgatttagct taattgttaa tttttaattc atctactgta gactacaaca atggccaaat      180

ttctggtaca ctcttcaatt tttggttgtg tcagtattgt gagttatttc atcgggtgca      240

atatcgaaag aaaaaatata ttaaaccatt tcaaatccca aaacattgat ttgaatgttt      300

tgagcaaggt atgtacatac ataaaaattg gttgcggttg gtagtccaga aaatcgcgaa      360

tctgtgtaac tgaggactgg ataaatgaga ttagttggtc atcctataca ctgaacactt      420

gaagaatata aaaattgtat ttgtaattca cagatcaaga aaggctgntt accgattttg      480

gcactgttca gcagcaactc                                                  500
```

```
<210>  128
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (6)..(6)
<223>  n = unknown at position 6

<400>  128
gcagtncggt aaaaacctca ccaagtaatt cgctccatga ttagatatcc ggagtgatta       60

cccttatcag tgcagttgtc gcaacgtggt gttagcagtt gtggttatgt gcgtagtttt      120

ttagtacatt agtgcccgtt tgagtgttaa tattgagttt tttttgcat caaaaaggat      180
```

```
taatgacacg tgcttttcca agtatacttt ggcatgaggg aatgtcttgc gcgctgagcg      240

caacgtaatg cgaagaactc gtgctgcggt catttgctgc agcagcagaa ggccgcgtgg      300

gcggagacgg cgcttcactg gataatagaa aattcaaaat ttttatctaa ccatttgtct      360

taaaaataat catacgaaat actctaccat ttagtaatta atcttccttc tgcaaacctt      420

caactgatca atttgatatg tgatatacta atatctatta tattatttaa taactaagat      480

tttatgaatc tgtattatat                                                  500
```

```
<210>   129
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (4)..(5)
<223>   n = unknown at positions 4 and 5

<400>   129
gatnnatccg atttcggttg tgcttgggct agtgtgttcc tgctatcatt tgatcttttc       60

cctccggaag aatttgaaaa tgcaccagac cttacattac tttgatacgg agatggtgct      120

gctctttgca ttacagaatt gccagcattg tttgtcggac cacttggccc tacagctggg      180

ggcggagtaa aacttgttct ttgtggaaag tttggccctg catattgacg aatgtttgaa      240

ttttgtggag gtggatatct attttgtgta ggactggctg tattggctgt cactcccgca      300

acaggaaatc tttgcgccat aataacttaa cttaaatgca ttcagaaaaa taccttaaac      360

ggtatcaatg attttcacaa ttcataatta aaataggtaa aaatgcataa ccttataaac      420

taataataca tcgaaatgat tttgcagttg tataataacg atattctttg aagttggata      480

aacacgaata ttaaaactta                                                  500
```

```
<210>   130
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<400>   130
aaaataaact cttacacata tttttagata tacagacaat atatttatat cttattacgt       60

atacaatatg tgtatctata ttataaatac atatattgca tcataaataa tttggtgtat      120

tctacatttg tcaatggtcc taaaattaca atcgatcaaa attaacactt caaacctcat      180

tcattcttga aaatgtaaca caatattaga aaattaaact aaaaaagcat attttcacac      240
```

```
gctattaaat ttacacaaat aacatcaagc aattaagcac ttactttacc acatctaatg    300

catataataa aaaaaaaaat ctaagctaag gtttgtatta ttaatgtaat tatttggttt    360

ctattgcgca attcatattt ccaaggtgtc aattaacaag tgatctttaa attaaatata    420

aactgttact ttatattgtt ttaaactatc accaaattta tgtgatgaag tctataattt    480

ggtgattggc aaaaatttcc                                               500
```

```
<210>  131
<211>  494
<212>  DNA
<213>  Ctenocephalides felis

<400>  131
tgtaactaga attttatttt tgtattaata tttaatttaa taatttgaca tgaaaattta     60

tcgttcagct ctctgatttc aaaggattct aagcaagact acttgtttaa acggtataag    120

ggcgactcct gaaaaaacga aatgaagaaa gtgaagcgag tcagtgatgt gggggcagtg    180

ggtccaccgc cgacagcccc tccatcctat atggctgagc ctcaatatgc acctataccg    240

caaaatcaaa actttaatgg aagtataaat cctaattatg ggtacaatca acaaactgca    300

aaccaaccat ttgtgccata ttccggtcaa ccaaattacg gacaacagag tcctgctcag    360

ttccatcaaa cgccgtctaa tccaatgatg tcttcgcaaa taccaaatca acaaattcct    420

ggtccccaaa atatgaatat tccaccacaa ttctcaatgt ttcaacaacc cttggtcaag    480

gaatggcaat tcag                                                     494
```

```
<210>  132
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (4)..(5)
<223>  n = unknown at positions 4 and 5

<400>  132
ctgnnacagt gaatgacata agatggcgac tagtatatgt gtttctaggt gccagatatt     60

gtttaaaaat gaaataaata ggataggact gcgggcactg ttttatacac ttcagggctt    120

taaagaatct cgacataatt ccatccacac gtgcgcctct tcacacccaa cgctagtgcc    180

taatgatcgc aacaatttga cgcctgtcat cagcgcagct aaaaaatcat cggaaaatga    240

ggctgtcgag gtgacgtacg ctgccgggct gccacaaata accgttccgc tgccaagcag    300

gcgagagcgg tgccgattca cgttgcgacc ggtcacaaac accgtcggcg acttcatatc    360
```

```
tatgctgcgc tccgaggacc agggcgtcga tcgagtagtt tgcgtaacct gctccggaat      420

acgaattgct ctccgacagc atcgaagctt tactcgaacg gccttctttt ggtcatcaac      480

gacaggaagt tgaggtagat                                                    500
```

```
<210>  133
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n = unknown at position 4

<220>
<221>  misc_feature
<222>  (10)..(11)
<223>  n = unknown at positions 10 and 11

<220>
<221>  misc_feature
<222>  (17)..(17)
<223>  n = unknown at position 17

<220>
<221>  misc_feature
<222>  (36)..(36)
<223>  n = unknown at position 36

<400>  133
atgntttatn nctaaangtg ttcaatgcat tctgantttg cgttgatgag aagtgattag       60

tatcaaaaat ttataaaata tgtggaagtt tattcaattc acgatatttt tcagcgtgct      120

gcgatttggt gcaagtttgg agtgttacag ttgtgaactt gcaaagaatt cgaactgcac      180

agttcctctg gctggtactc taccagttgc aacaaagcac gaccatattc taggaacaaa      240

attttcatt cattttttgaa agacaattcg acatatgatt tagatgaact tgagaaaaac      300

aaagaagaag aaagcttccg atgtctgttg gttactggag aaagagtttt caatcatgga      360

tttatagaaa aaggtgtgat tagagaatgt gtccctgccg agtcacatgt gaagaaataa      420

agaaagattt aacaaataaa ggagcccggg atctaaattg caccatgtgc gacactgact      480

tggtaatggg tcttagacct                                                   500
```

```
<210>  134
<211>  0
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>   134
000

<210>   135
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = unknown at position 4

<220>
<221>   misc_feature
<222>   (7)..(7)
<223>   n = unknown at position 7

<220>
<221>   misc_feature
<222>   (35)..(35)
<223>   n = unknown at position 35

<400>   135
gatnttntcg aacaattcaa tctaccaagt ttatngcgaa caattgataa taaaaaataa      60

ataaataatt acttgtgtcc ggatgaacga atcatgctcc taaccccatt tggtgaagat     120

ggactctact aaaccttttt gtgaataatg aacagttttt gtcagtgttc accaactatc     180

aaccccgat actaattaag tgcgactgat cattaattga catgtctcga gtgatttacc      240

caaagcaatt aactaattaa ccaattactt aagtacagct aattacaaac ccagcgaaag     300

gtacacatac ctgcacaact gcatatactc acatttcaat aatatgaata tttcctgttc     360

atgtaaacca ctcaattaat ttaatcactg ataaattgaa catttaaatt tccttcttga     420

atacgaataa atttacctaa attagagtca cggctgttta ttaaacttta attatcaatt     480

aatcaaaaaa tgccatgcca                                                 500


<210>   136
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n = unknown at position 6

<400>   136
aaagtntaat atatatcttt taatataccg tttgtttcat atataaaaca ttaataaaat      60

ctaagataaa caataccaag ttactatcat agataagtaa acataactat actacggtta     120
```

```
ctatatgtac ttgagttcac tagaattttg ttttctataa caaatgctac agaagtgtag      180

tattaaaaaa caattaggtt ctcgaaaagg cgcggcatct tcagatttcc aaattgcatc      240

taataattca ctgcaactga ctttccaatc atctgatgtc acagacctca aatttcttct      300

agaaactgaa agatacatct attcaatatt ggaaagacca tttttaattt tgtaatgtta      360

tatgaacaaa ttttatatac taaaattgaa tcatttacag taattttcaa attaacccga      420

gattcacata atcacgctca taacacattc atgcacatgg gaaaatttca agtgtcaggg      480

acttggtacc ttttctacta tcctcaaata ctacttcttg gatcattatc attttctggt      540

tcgctctct                                                               549
```

```
<210>  137
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (7)..(7)
<223>  n = unknown at position 7

<220>
<221>  misc_feature
<222>  (499)..(499)
<223>  n = unknown at position 499

<220>
<221>  misc_feature
<222>  (523)..(523)
<223>  n = unknown at position 523

<220>
<221>  misc_feature
<222>  (537)..(537)
<223>  n = unknown at position 537

<400>  137
gtgcttntat gctatttcaa taaatgtttg ttgaatgaaa aggaaattta ttgttgtttt       60

gggtgcattg ttttggcact agtgataaaa acttaaatga aatttgtgtg tttataatgt      120

gattttcttt aattaaaaat tatttaaatt ctctggtgta tgttaagttg atcaaagtaa      180

acatgaaacc ttatcatcga acattagtta attattgatc ataaaataat atttggtgaa      240

atgacctaaa aattcaataa cattttgctt aaacaatatt tatcactaca taaaaaacat      300

gctatgaatt attgcgttga ttaagttccg cactttgct atattattta ataaatattt       360

tatttatttt aattgtgatt aaaaactttt atcgggtaat tgctaaactt aattcgatat      420
```

```
ttttttgctaa cgcatttttg cggaatggct ggatttatag aagttgccat atgtttggct      480

attctttact ggctattcna cgcaagaccg ccagcaatgg tangtgtagt ggcagancga      540

atgtggtct                                                              549
```

```
<210>  138
<211>  392
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (33)..(33)
<223>  n = unknown at position 33

<220>
<221>  misc_feature
<222>  (380)..(380)
<223>  n = unknown at position 380

<400>  138
agatttgaaa caaacaatt tgaagataaa gtngtactta cacagaatga aaaggatttt       60

gaaaaaaatg ttgaaaagaa agaagcaaac gtaaatttag aaacaaataa ggaaacatct     120

gtgaaaaata aacttaacga aggatttata aaaatcaaag attttttaa attttaaatt      180

ttattttatc atccaatttt atttaatttt tatgtcatgt atcatcaaat aatgaaatga     240

aagcatgcat taggataaat gtcaacatat atatagcaaa gtcgttacat attttgttaa     300

taatatgaaa tacatttact atggtattaa tttttgtttt agatacttta tttagaaata     360

ataaatataa aagacccggn aaaaaaaaaa aa                                    392
```

```
<210>  139
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n = unknown at position 5

<220>
<221>  misc_feature
<222>  (7)..(7)
<223>  n = unknown at position 7

<220>
<221>  misc_feature
<222>  (517)..(517)
<223>  n = unknown at position 517
```

<400> 139
gtcantnata aaaaaaaaat tttttcaaa aaaaaaaaac aaaaaaaaat taaaaaaaaa   60

tttttttaa aaaaaatttt ttttcaaaaa aaagtaattt tttgtccaat ttatagtttc   120

ttaaaaatcg tatttttcg aagtaaattt tttttaaaaa tgtcaatcgt ttttaaaaaa   180

ataataattt ttggtacggg aagttccagc aatttgcctt aaggcacgat gccttaattg   240

ccttaagaca gaattccact tacagctagt ttttacttga tttgatagag gaatagttac   300

agcaactatc caggtttatt acgtataaat atgatcagtc gatttcaaga tatattaatt   360

tagaagaaat tgttacaact agcccctatc tagcttccct acttagatat gtttacttag   420

atattccctt ccctacgtag atatttttcc atgattagaa atttatttat aagtaaattt   480

tctttttat tcgttagtat taaatataag gttatgnatt tatatctttg ggataggtat   540

acatgagta   549

<210> 140
<211> 115
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (3)..(3)
<223> n = unknown at position 3

<400> 140
aantttagtt acatagttat atagaggatg agaagtttaa gtttgtagct tattttatca   60

ataaatgttc aaaattatga atcgatatat tcataactca aaaaaaaaaa aaaaa   115

<210> 141
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (537)..(537)
<223> n = unknown at position 537

<220>
<221> misc_feature
<222> (540)..(540)
<223> n = unknown at position 540

<400> 141
attttcaagt acccattcgc tcgatctcga agccgcacgc agacattttt atttaaataa   60

```
cgattatgta gcataattga ataattttc cgaattgtaa taatgttttt atcttccgat    120

attgataaac attgacctga tgttcctgca aataagattt tctttctaa aacgaaacct    180

gaaagatacc acatactttt cctcatgcat gtaagataaa gttttgtgga attgttttaa    240

aataaaggca agatgcggcg aagtactact aaacgttcta tggtgactga ttacgatgat    300

agaagtctgg ggccagtgct taaaaaatcc aatgctagtc ctgatttatc aatggtcaaa    360

cagtacacat caattagccc tcagcagact actgttagtt atcatttggt ggatcatggc    420

tacggtgcta ctcctcaaca tcaaattatg cgggacatac cagttgctcc acctaagacc    480

acagaggctg tcaaacgtcg acttaacttg acatgacaag ttcagtccca gttcctnctn    540

ctcgaccaa                                                           549
```

```
<210>  142
<211>  375
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (68)..(68)
<223>  n = unknown at position 68


<220>
<221>  misc_feature
<222>  (210)..(210)
<223>  n = unknown at position 210


<220>
<221>  misc_feature
<222>  (253)..(253)
<223>  n = unknown at position 253


<220>
<221>  misc_feature
<222>  (292)..(292)
<223>  n = unknown at position 292


<220>
<221>  misc_feature
<222>  (329)..(329)
<223>  n = unknown at position 329


<220>
<221>  misc_feature
<222>  (366)..(366)
<223>  n = unknown at position 366


<400>  142
agagcagagg ggcattagaa aataaactat tagcagctgc tgaagatctg agaaaaactt     60

taagagangg tggtaatttg actaatggcg aagttatgga tccttggttc cttgaaaatg    120
```

```
ttgatgctga cattgaattc caaacattgc caagttaaac ggagctcttg ccaatgtaac    180

aagtagaggg tttgtctagt ttcaacatan atcacataaa agtgaatgtg ctcttcatga    240

aagctacttt cantatcact ttttgaccac ctcatggcaa agggtctata cnacatttga    300

aggcaagttg gcagatttgc taagttgtnt ggcaaaggct cctttgatat tcatgttacg    360

tgatantaaa ccgct                                                     375
```

```
<210>  143
<211>  533
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>  143
gaagtttact aacgctttga taaagtatcc taaataaaag tataacggtg gtttttgatt     60

gaattaattg taaaatcaat aagatataaa gttgttaaat aaggtaatct gtgctagaaa    120

tgtatattgt gctccggagt cgagaaataa tctaaagttt agccgtttgt caccgagacg    180

ctatttctga cagttacata tcaataaaag tatcatatct tgttctgatt cgtgaaattt    240

acaataatgt ctgagttaat gttatgttct gaacactgat aattactgtt tagtgttttt    300

caatagattt cctcaaaact gttctacagc agtggactca gaattgtgct aaaagcaagc    360

cgaattcggc tttaataaaa aagtgaaaat tattgacctt ccatccgaga acgatacttt    420

tcacaatcag tcagactttc tgtaatgtac ccaaatatct tccaagagca cacaccaaag    480

aaataagctt cgttctcccc gttacttgta cactcaaaaa aaaaaaaaaa aaa           533
```

```
<210>  144
<211>  414
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (284)..(284)
<223>  n = unknown at position 284
```

```
<400>  144
tgcaaaattt agtgaacaat cgccaaagca aaatgtatag tgttagagac tcattagttt     60

tagtattgct tgcttgtctg gtcgcgccaa gcttacaggc cactcctacc tacaaagctg    120

gcgtcgtaga atactatccg tcccagaatg agaaattcga agagaaaatt aatgaaaatt    180

tgaagtttta tgaaaaaaca attgaggaag cagaaggcaa gaaggtagac atcctagtgt    240

ttcccgaagc aaccttaaat ggtggtatca aaactagaga agangccaag gaacatggtg    300
```

```
ctgagatcaa atttccaaat aaagacagtt taggcccaac aaaattaaaa cagccgccgt    360

cttttttgga aaaattatcc tgtaaagcta tggaaaagaa atctacgtag ttgt          414
```

```
<210>   145
<211>   350
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (4)..(5)
<223>   n = unknown at positions 4 and 5
```

```
<400>   145
gaanncatct atcaaaatgg ccaaacgtac caagaaggtt ggaattactg gtaaatatgg    60

aactcgttat ggagcttcct tacgtaaaat ggtcaaaaag atggaaataa cccagcacgc    120

caaatacact tgcacatttt gtggaaagga tgccatgaaa cgtagttgtg ttggaatttg    180

ggtcttgcaa aagatgtaaa agaacagtag ctggtggtgc ctgggtatat accacaactg    240

ctgctgcctc tgtccgatct gctgttagga ggttgagaga aacaaaggaa cagtaattta    300

tattgatctt aataaataat taataaaaat taaaaaaaaa aaaaaaaaaa              350
```

```
<210>   146
<211>   217
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   146
cccttcagta tttctttttat tttcaattac gaaaatcaga aaacagttat tccaagatca    60

tggttcttgt tcccttcttt aagtttattt cctatcctaa agtgttaact attactacct    120

aaactgcgat gatatttgtg atgaatgatg ttgacatgat gtccgaagac gttggctaag    180

atgcggtaaa attctgttcc tggtcatcat cgttccc                           217
```

```
<210>   147
<211>   489
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   147
catttgcaag aattatcagt gtaatccaaa aacaatcctg tccgcacgca agcaaagggt    60

tgcgatggtc ctggtcctgg tggcggtggt ggaggtgcag ctgtcgccaa gcactcggat    120

aaaggcgctt gcacgcattg tgggtaaagc gcgctgaagt atgtctgtcc ggcgcatgta    180

aaacgaccca cgttgaaatt tcctccagag agtctcacac attcaaaata tactttgcat    240
```

```
gttttgtctg ctggatctgc aaatgagccg ctctgcacgc agctgtatat gggcggcggc      300

gtaggtggtt gccaaggcgc tggaggattt cttaggcact ccgaaaggga agcgaccaca      360

cattgctgat agaagtaagt agaaccaagg acaattgtaa cgcgctacac tgaatcctcc      420

gcctgctttc aaagcacatt tgtagtatcc tttgcaagtg ctgtcatagg gatctataaa      480

catcccttc                                                              489
```

```
<210>    148
<211>    489
<212>    DNA
<213>    Ctenocephalides felis

<400>    148
aaaaggttta caagtctcaa agattccgtg caggtaaagg taaaatgcgc aacaggcgtc       60

gcatccaaag acgtggtcca ttgatcattt acaaccaaga ccagggattg aagaaagctt      120

tccgcaatat ccctggaatt gaattaatca atgttgaaag acttaacttg ttgaagttgg      180

cacctggtgg tcatgttggt cgtttcgtga tttggactga atctgctttc aaaaaactag      240

atgagttgta tggaacctgg aaatcgtcat caaaatctaa agctggttac aatctaccac      300

aacctaaaat ggctaacact gatttggctc gcttgttgaa atctgaagaa attatgaagg      360

ttcttcgtgc tacagttact cgcagggtta aaaaattgaa cccattgacc aatgcacgag      420

ccatgcttaa attgaatccc tatgcagcag ttactaaacg taaagccatt cttgctacta      480

agaagaagc                                                              489
```

```
<210>    149
<211>    289
<212>    DNA
<213>    Ctenocephalides felis

<400>    149
agttaaggct ctatattgct ggctacctct tgctgtcaaa ggtgcgaagc caggcatgaa       60

gaaatgtaaa cgtgggaatg gaaccatgtt tacagctaat tttctcaaat cagcattaag      120

ttgaccaggg aaacgaaggc aggtggtgac accagacatg gtaagagaaa ctaaatgatt      180

caagtctcca tatgttggag tgctaagttt caatgttctg aaacaaatat catacaatgc      240

ttcattatca atacaatagg tttcatcagt gttttcaact aattgatgt                  289
```

```
<210>    150
<211>    171
<212>    DNA
<213>    Ctenocephalides felis

<400>    150
```

```
tgcttggaga aagtgcagtt ggaaaaagtt ctttggtgtt aagatttgtc aaggggcagt    60

ttcatgaata tcaagagtct actataggtg ctgcgttttt aactcaaact gtgtgtctgg   120

atgacacaac ggttaaattt gaaatttggg atacggctgg acaagaaagg t            171
```

```
<210>   151
<211>   413
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (405)..(405)
<223>   n = unknown at position 405

<400>   151
acacaattag caataggaaa atctagccac aaatattttt aacaatttat ttaatactta    60

tgttctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt   120

taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt   180

gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca   240

caagatctaa cacacaattc atctaacaga aagaacaaaa taattttaat gttattaaaa   300

attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga   360

tacttttcat acaacagtgc tttctgtata aacaatataa tatanataac ggt          413
```

```
<210>   152
<211>   418
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (402)..(402)
<223>   n = unknown at position 402

<400>   152
ttgacaagca aaataaaata catcaacgtt gttttttacg gccacttgca agttatttaa    60

tggttccatt ttttgaacaa ctccatttgt tccaagaacc aatgatgttt catatgtttg   120

tgatggttgt aaattcggaa cttgtaatgg tgcaccaggt gccagaccaa agctgttttt   180

attcaactgt atggcaaaac cactcatagc ttgcattgct ttgttggtgt agctcatgtc   240

catgtaaatc tgtccacttc tcctggagaa tgttccatat atttccaaac ctttgccctt   300

ttcagctggc aaccacaatg cttttggtat aacaaaaggg ccagctgatc ccacagagaa   360

tatttctccc agaagtccag agttaccgat gttattaagt anaattgaca tctgatgt     418
```

<210> 153
<211> 340
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (196)..(196)
<223> n = unknown at position 196

<220>
<221> misc_feature
<222> (285)..(285)
<223> n = unknown at position 285

<400> 153
gaatactggt tcataaaatt tagaagccct aatttaccgc ctacggcgat atgatgatca   60

gacatatgtc cgggcttgtc caaaaatgta aaatgcacat gggaattttc caatggcgtc   120

cacttatgaa taatattggg aagtcctagc aattgcgtta tcaaattttc ctgcacgggt   180

tgaaaacaat ccttangcat cttcaaatca tcccttacaa ttttaccctg gttaattaat   240

ttggtaaact cgtcaccgga tttgtcgagt gtcttaactt tatcngcgat gctggttctg   300

cacgcgtcca attttcggcg tgttttgtcc aaatcttggt   340

<210> 154
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 154
tacgagtgca cattaaacgc tcgaggtgta ttcgacgtgg cccgatatgc ttgtgcagct   60

gagttatatt tcaacagcgt tctgcagcag tgcgtacctg cataccagtc agactgttta   120

ggtgcaagtg tcacttcttc cccatccata ccatccttac catccttacc atctttccca   180

accttgccaa catcttcccc aacagcagga tttccttttg ccgaaaatc tcttgatatg   240

caaacaaaaa ctggaactaa atgtacaaaa ggagaagttt ctaaagacga tttaaattct   300

acatgtacct agtgagtgtg ttatatgaaa ttgctattgc atattacata caagcttaat   360

aaaggttatg gtgatttatt tcatttaaag gcaatgtatc ggtttaatgg ttttaaattt   420

attttttattt aatattaaat agattaatta aaaatctata aagtgataag aggctgatat   480

ccataatatt attgaata   498

<210> 155
<211> 102

```
<212>  DNA
<213>  Ctenocephalides felis

<400>  155
agaccaagta aaaatctcac tcacagcttt taccttatta ggatcattta aaaatctatc    60

tagaatgcca ggttttgcca gagattgctg cactttctta gt                      102


<210>  156
<211>  462
<212>  DNA
<213>  Ctenocephalides felis

<400>  156
aatttgcgga aacacctcag attttagcgg cagcggaaga aatttgtgga ccttatgtct    60

ggggccgtta tgatttactt gttttacctc cttcattccc ttatggtgga atggaaaatc   120

catgcttgac atttgtaaca cctactctat tggctggcga cagatcgcta gtgagtgttg   180

ttgctcatga aatagcacat agctggactg gaaatttagt cacaaattgc agttttgaac   240

atttctggct aaatgaaggt ttcactgtat ttgtagaata caaaattcag ggaaaattgc   300

atggtgaaga tgttagagac tttcattcgc tttgcggact cacaacattg aaagaagagg   360

ttcaactatt aggtgaaacc aatcaactga ctgctctcgt tgttaactta caaaatttaa   420

gtcctgacga tgcattttct tctatacctt acatgaaagg ct                      462


<210>  157
<211>  194
<212>  DNA
<213>  Ctenocephalides felis

<400>  157
atcctttttt tctatgaacg gttttaggta acggagaata atgtaaggca tcactaaagt    60

cgtttttatt tgtgatttca tgattaggct cgggtcttct gacccgcata aattgacccc   120

gcaattttgc ttcctttgcc tcgtttgatg atacagcccg ccaatccaaa ataataatt    180

ttggtaaatg atgt                                                     194


<210>  158
<211>  265
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (58)..(58)
<223>  n = unknown at position 58

<400>  158
```

```
tttttttttt tttttttttt tttttttttt ttctgcatca gataatacct cataagcngg      60

tcctagatct tgaaacttcg aggctgcatc tggatcgttt ttattcttat caggatgcaa     120

ttcctttgct tgtttcctat aagctttctt aatttcattt aacgtcgcac tacgagatac     180

ttttaatatt gaatagaaat ctcgtccagc gctggctagt aaaaaataaa tacttaagtt     240

aactaacact aaataacaca gtttg                                           265
```

```
<210>   159
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   159
cttggcatct agttttgtaa attcagtttg ctgtttatt ttgctgcgat atttcaatgg      60

attttttcgta tctggaggaa gtgcaacaat atatgcatat ttaggagaat ttcataatcc    120

taggcatcgc agcagggcta ttatgggagc gtcaagcatc ttcggatttg cgtgtcttgc     180

attaccgacg gttgcatggt taattataaa tcagaaatgg tcattctata ttgactttt     240

gggatataca tacaagccct ggaggttgta tatggttgca tgtggtttgc catcactgct     300

ttgttgtttt gctttgtgga aattaccaga aagtcccaaa tttttgatga atcagggaag     360

aaacgaagaa gctcgtcaaa ttattgccaa aatgtataga attaatactg gtaaaccaga     420

aagtgaattc cccgtatcat caatcttaga tgaatatcca ggagtggatg gtgaaaatac     480

aaataaaaca aagaaatc                                                   498
```

```
<210>   160
<211>   617
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (573)..(573)
<223>   n = unknown at position 573

<220>
<221>   misc_feature
<222>   (577)..(577)
<223>   n = unknown at position 577

<220>
<221>   misc_feature
<222>   (579)..(579)
<223>   n = unknown at position 579

<400>   160
ccatttgcaa ggaattatca gtgtaatcca aaaacaatcc tgtccgcacg caagcaaagg      60
```

```
gttgcgatgg tcctggtcct ggtggcggtg gtggaggtgc agctgtcgcc aagcactcgg     120

ataaaggcgc ttgcacgcat tgttggtaaa gcgcgctgaa gtatgtctgt ccggcgcatg     180

taaagcgacc cacgttgaaa tttcctccag agagtctcac acattcaaaa tatactttgc     240

atgttttgtc tgctggatct gcaaatgagc cgctctgcac gcagttgtat atgggcggcg     300

gcgtaggtgg ttgccaaggc gctggaggat ttcttaggca ctccgaaagg gaagcgacca     360

cacattgctg atacgtgctg ctgaagtaag tagaaccagg acaattgtaa cgcgctacac     420

tgaatcctcc gcctgctttc aaagcacatt tgtagtatcc tttgcaagtg ctgtcatagg     480

gatctataaa catccctttc tgcacgcatg aaaaaagaag cggcggtgct ggtgtaattg     540

gccgtagtcg tagtaatcgg acaattggag gangcanang tgtaattaaa cattccgaat     600

atgtagggcc cacacat                                                    617
```

```
<210>   161
<211>   450
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (34)..(34)
<223>   n = unknown at position 34

<220>
<221>   misc_feature
<222>   (65)..(65)
<223>   n = unknown at position 65

<400>   161
agaattagaa ttgacacaaa atgctttagt gaangaaatg aaattaaaat tgatgattat      60

tgatngattt tataccaaat gaaatcaaag ataaatttta tgcaaatgca aagtttgatg     120

aagatttgga catatggaca gttgcaataa ctaaagaaat gttgccacca agacgaccga     180

tatccaaacc aggacggcgc aggcctattt ctgaggtctc tttggttaaa agacattacc     240

ctggcttggc aggtatacgt cacagaggtg agaatattat tgagtatgac ttgggcatgc     300

catttcgcac cacatttgaa tacgaagccc caacagtgtc cccagcgtta caatcagtat     360

tagaagatgc tttacaacca gaaggagatt tagaaatcac ttcaccccgt caaccgtctt     420

cagactgccc aaatcatgaa aagacctagt                                      450
```

```
<210>   162
<211>   420
<212>   DNA
```

<213> Ctenocephalides felis

<400> 162
ctgaattcca gatgtagtga agtaaggaat ctcaaatttc acttgtattg ggggtttttcc   60

ttccgtatct tcacattcca cacttggcaa tccaaaatgt gctctcatta ggtattcttt   120

accacctgga aatgatttta tggaccaagt aaatgcattc aaatcaggag catatttaac   180

acttccaatt gttgttttaa acttcgggga atctgcatca gctggtacag gaatcagtat   240

ctccacatta tttgcagttg accgtctttt aaattgtgac ttagctttga tcatgtattc   300

tacacggctg tgtgcgtgcc tttcaattac tgattcaatc catatcaagg gtttttacatg   360

tgtgttaagt cgataagaca ttaactcaaa ctctccatca ggaggaataa atgatatggt   420

<210> 163
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (27)..(27)
<223> n = unknown at position 27

<400> 163
tacaatggga attgtcatgt tcaaatnctt ggctgcggca attatacctt cggctataac   60

atcacacctc attattcctc caaatatatt cactaaaata gcactgacct taggatctgt   120

tgtgataatc ttgaaagctt ctttgactgt agaagcagtg gccgcaccgc ccacatctaa   180

aaagtttgct gggtctcctc catgtaattt aattatgtcc atagtagcca tggcaagacc   240

agcgccatta accatacatc caatatttcc atccaatgct atataattca aatcaaattt   300

tgaagcttct acttccttag gatcttcttg agtccagtct cttagggcaa aaagttcttt   360

ttgtcgaaaa tgagcattgt catcaaagcg catttttgcag tctaagctga aaaatatatc   420

ctcagatttc cttgatattt cttttgaatc ttcagcaaat ggattgattt caatgagtag   480

tgcatctttc tttaaaaa   498

<210> 164
<211> 218
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (12)..(12)
<223> n = unknown

<220>
<221> misc_feature
<222> (70)..(70)
<223> n = unknown

<220>
<221> misc_feature
<222> (74)..(74)
<223> n = unknown

<220>
<221> misc_feature
<222> (87)..(87)
<223> n = unknown

<220>
<221> misc_feature
<222> (108)..(108)
<223> n = unknown

<220>
<221> misc_feature
<222> (125)..(125)
<223> n = unknown

<220>
<221> misc_feature
<222> (129)..(129)
<223> n = unknown

<220>
<221> misc_feature
<222> (157)..(157)
<223> n = unknown

<220>
<221> misc_feature
<222> (160)..(160)
<223> n = unknown

<220>
<221> misc_feature
<222> (163)..(163)
<223> n = unknown

<220>
<221> misc_feature
<222> (206)..(206)
<223> n = unknown

<400> 164
cctggtggtt tntggtagtg ggggttttgg tggttctaat gggaggattt ggtggaggat   60

tttggcttan gggntgggaa tcggganggt tccattggtt tcattcangt ttgaacttgg   120

agcanttgng gatgggctta tttcatcatt cgttgantgn ggntgggcgt ctttaacgtc   180

actggtaaat aaacgcctgg gcccanggtc aagtctgt   218

<210> 165
<211> 373
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (44)..(44)
<223> n = unknown at position 44

<220>
<221> misc_feature
<222> (50)..(50)
<223> n = unknown at position 50

<220>
<221> misc_feature
<222> (300)..(300)
<223> n = unknown at position 300

<220>
<221> misc_feature
<222> (334)..(334)
<223> n = unknown at position 334

<220>
<221> misc_feature
<222> (359)..(359)
<223> n = unknown at position 359

<400> 165
caaaaatggg cacctcaact ggtgcaaaac gttttggct tttnttgggn ccgtggtctt   60

tagacaaacg tgccagaggg ctttcacga aaaccaaggg gagggcattg tcattcctga   120

gaagggcgca agcaaaagt tctcaagggc agagttattg cagttggccc ggcaaagaaa   180

ccaactggtg aacatgtgcc cctaggaatc aaaagtggtg acatggtttg ctgccgaatc   240

cgaggcccaa aagttgagct cgaagagaac aagaattcct tattcaaaga atccgatatn   300

cttgccaagt tggatatcga cgaataaatt gccnaaaatt taccatcttt cacaatttnc   360

ccaacacaaa ctg   373

<210> 166
<211> 390
<212> DNA
<213> Ctenocephalides felis

<400> 166
aaatctccgc cctgcaatct tccccaaacc aaccaaccga tcaaatagga agccaactcc   60

aagctgtcca agttctccca acaaacctcg gtttgcacac acacagacac caaaacaact   120

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```
atgctgtacc ccaacaaacc aactttggat cctttcacca tcaccaacaa atcgcaccca    180

caaatattgg gggctactac tcccccacg gaattctacc aatctactac gataatgggc     240

acggattgtt gaattttaat cctttgaagc ctcaaaacta ctacgcccag tattatcctt    300

actaccagaa cacgagacag tattatcctt acaattttgg atattattat catcacagtt    360

tgccgaattc gcactactac aggcagcagt                                     390
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<210>   167
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n = unknown at position 6


<220>
<221>   misc_feature
<222>   (8)..(8)
<223>   n = unknown at position 8


<220>
<221>   misc_feature
<222>   (10)..(10)
<223>   n = unknown at position 10


<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   n = unknown at position 14


<220>
<221>   misc_feature
<222>   (17)..(17)
<223>   n = unknown at position 17


<220>
<221>   misc_feature
<222>   (35)..(37)
<223>   n = unknown at positions 35, 36 and 37


<220>
<221>   misc_feature
<222>   (52)..(52)
<223>   n = unknown at position 52


<220>
<221>   misc_feature
<222>   (56)..(56)
<223>   n = unknown at position 56


<220>
<221>   misc_feature
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<222> (231)..(231)
<223> n = unknown at position 231

<400> 167
agggggngntn tatnatnaat ttttctttga cgacnnnggt taagggggggc cncggncggg   60

tatttttttca taatcattca atattaatta ttttattaat tacaattttta gtgggatata   120

ttatgagatc tttattttat aataaattat ataatcgtta tttacttgaa agacaaaata   180

ttgaaattat ttgaacaatt ctacctgcat ttatattaat ttttattgct ntaccttctc   240

ttcgacttttt atatttatta gatgattcaa ataggccttt aatttcttta aaagcaattg   300

gtcatcaatg atattgaagt tatgaatata ctgattttaa taatatttct tttgattcat   360

atataattcc atctaatgaa ttaaatttaa attcatttcg tttattagat gttgataatc   420

gaattatctt acctattaat tcacaaattc gtattttaat tctgctaccg atgttcttca   480

ttcatgaacc attccctctc   500

<210> 168
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (30)..(30)
<223> n = unknown at position 30

<220>
<221> misc_feature
<222> (57)..(58)
<223> n = unknown at positions 57 and 58

<400> 168
atatatctta catcgaatct aataacattn aagagttatt aattttcatg tcgatgnntt   60

agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa tcgataatac tttctcaaag   120

tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct   180

cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca   240

tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat   300

tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac   360

tgccattgcc ctgagttgtg tagggtacag atctactaat gccgcgttta ccactgtcac   420

agcaattccg caaaccagca accacaaata taaatatgat gctattgtta aatgttcaat   480

aaatgcacaa attattcc   498

<210> 169
<211> 232
<212> DNA
<213> Ctenocephalides felis

<400> 169
tgtaaacagc actttgcctt tgtaggtttt atcgaaggct tcgctcaagg ttttgatggc   60

tttggtgagt tcagttttgg ctttgtcggt ttcttcgggg gatttgaaat ttgttgctaa   120

gcggaagaag aataagctag gacgttcatc aggggttagt tctaagactt tgtcagataa   180

aagcgttgag gacaccaggt ctttcacaaa cttctctggt aaatcacttt gt   232

<210> 170
<211> 288
<212> DNA
<213> Ctenocephalides felis

<400> 170
gataagaaca gtggactctc gtgctcttgc acttctctat gttgaatagg agcaccgccc   60

aatttgtcat caagttctac agtcataatg gctgcggcac ctgcctcatc ttgtgacgtt   120

tccaatccaa gccagaaatg aacatcccag ctaaattggc ccttcttgtc ttctttagta   180

ttcaggatga tgtatgagtc tcctgtgtag aattttccaa aatcattttt aggatacgcg   240

acgggttcaa aattctctac acgccacacc tccaagcctt tggtagta   288

<210> 171
<211> 500
<212> DNA
<213> Ctenocephalides felis

<400> 171
gttaattccc attaacacgc ggcgtttttc gtttagcaat tcaataaatt acacacttca   60

caatggctga tatggaagat actcatttcg aaactggaga ctctggagct tcagcgacct   120

atcccatgca atgttctgca cttcgaaaaa atggttttgt aatgttaaaa tcccgccccg   180

tgtaaaattg tagaaatgtc cacttccaaa actggtaaac atggtcatgc taaagttcac   240

atggtcggaa ttgatatttt caacggcaag aaatatgaag atatatgccc atctactcac   300

aacatggatg tcccacatgt aaaacgtgaa gattatcagc tcactgacat tgatgacggt   360

tacttaacat tgatggctga caatggagac cttcgagaag atcttaaaat tccagatggc   420

gaattgggac agcaacttcg taatgatttc gaatctggaa aggagctttt gtgcctgact   480

aaaatcttgt ggagaagaat   500

<210> 172
<211> 500

<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (5)..(5)
<223> n = unknown at position 5

<400> 172

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gccgntgaag ccgcaccagc tccagctgca gcccccgccg ccagcgaacg ccaatcatcc    60

aggggatccc gcaaagccgt caagcgcagt ggatctaacg ttttctccat gttctcacaa   120

aagcaggtag ctgaattcaa agaagccttc caactaattg accacgacaa agatggtatt   180

cattggaaag aacgatctcc gtgccacttt cgacgaattg ggccgtttgg tacaagagaa   240

agaactcgac gacatgatcg gtgaggcttc aggaccaatc aacttcaccc aattgttgac   300

cttgttcgcc aaccgcatgt ctggatcagg tggtactgat gatgatgatg ttgtcatcaa   360

cgccttcaag accttcgaca acgacggcaa aatcgacagt gacaggttac gtcatgccct   420

catgacctgg ggagataaat tcactgccaa gaagttgatg acgcctacga ccaaatggca   480

ttgacgataa aggcttcatt                                                500
```


<210> 173
<211> 500
<212> DNA
<213> Ctenocephalides felis

<400> 173

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gatgccaaaa cagaaccgtg tcgcaatcta cgagcacctc tttaaggagg gagttatggt    60

ggccaagaag gactaccatg caccaaaaca cccagaatta gagcaaattc caaacttgca   120

agttattaag gctttgcagt cgttgaaatc tagaggatat gttactgaac aatttgcatg   180

gaggcatttc tactggtatc tgacaaatga aggtattgaa tacttgagga catacttgca   240

cttgcccctt gagatcgtgc cctccactct caaacgtcaa accaggcccg aattggcaag   300

gccaagacca gctgccggcc caaggactga aggatctcgt ccagctgaag acagatctgc   360

ctaccgtagg gcacctggtg cacctggtgg cgctgacaag aaggctgatg tcggtgctgg   420

cactggagac ttggaattcg tggtggatat ggacgtggca gacctgccct caataaattt   480

atataagtaa tttataataa                                                500
```


<210> 174
<211> 500
<212> DNA
<213> Ctenocephalides felis

```
<220>
<221>  misc_feature
<222>  (4)..(6)
<223>  n = unknown at positions 4, 5 and 6


<220>
<221>  misc_feature
<222>  (41)..(41)
<223>  n = unknown at position 41


<220>
<221>  misc_feature
<222>  (61)..(61)
<223>  n = unknown at position 61


<220>
<221>  misc_feature
<222>  (179)..(179)
<223>  n = unknown at position 179


<400>  174
aggnnncacg cctatgctca aaagaacttg cgcagatctg ntcgtcgcat taaggaactt      60

nccttccaag ctgaagaaga ccgcaagaac cacgaacgta tgcaagacct tgtagacaaa     120

ttacaacaaa agatcaagac ttacaagagg cagatcgaag aagccgaaga aatcgccgnc     180

ctcaatcttg ccaaattcgc aaggctcaac aagaattgga agaggctgaa gaacgcgctg     240

acttggctga acaagccgtc agcaaattcc gcgcgaaggg acgtggtgga tccatggcac     300

gaggtggcag cccagtgccc gcaagaacag cagctcgccc acaatttgac ggaatggctt     360

tcccgctagg ttcgacttga accctgacag cgagttctaa attatttata attaatttta     420

aaaaagcgaa cgtggctgct tgacagtaaa cattaatatt ttttaaaaat tattaaaagt     480

aaaaaatatc agctcgttca                                                 500


<210>  175
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (489)..(489)
<223>  n = unknown at position 489

<400>  175
gtaaaaacaa aataaaatca ttttagtttg agttagaaca tgtgttatta taagttagcg      60

taacacacaa aaattaatca taaatgtctg ataataattg gtagtatact tgtacagtaa     120

attcttttatt ttccttttcc caatcttttt ctaaaagcga gtgtggtcat actgctgtgg    180
```

```
taattcgtca ccgagaagcg gatgaagttt atcctccatc attagtgaag gctttgcttg    240·

tcagaagaga gaggagtgtt ggttgccggt gtttattgta gttttaattt aattttaaac    300

taagttatgc gtatgaccca agacatggac gatgatgaaa agggaaagct tttcgtcgga    360

gggctatcat gggagactac tcaggagaac ctgcagaggt tcttctcgag gtacggcgaa    420

gtgatcgatt gcgtcgcatg aagaacagcg agtcggcagg tcgcgcggct tcggcttcgt    480

cacatttgnc gatccctcga                                                500


<210>   176
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<400>   176
aagccgtggt agtttcgctg tatgaggaac ctattcagcc tcaacaagct gcttctgtcg     60

tggagaaact tggtgactac ctcataactt gcggctacta aatgtgaaac actggagtgg    120

cccccttatta attttttaaga aaactataat aattataatt acgattaatg aataaattta   180

aacaatgaag accggccagc aaaaagggac agaattttttt tctcatgcct cctgcaatgc    240

agtaaaatat tttgtgccat ttttgtgcct ttgttcccgg tgaccttttt ttcctcagaa    300

gggacacctg gagtgtactg gcaaaatcga ggacattagt ttaaacattt gtattataaa    360

accgtgcgga cggcaaaatg aataaaaaat cttactacga ttaaatttgt attaatttcg    420

atgtgaggtt atcgacttgt ggatttaaat atactttctc ctttaataaa actcgtgctt    480

ttgcaattta tgatttgcta                                                500


<210>   177
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<400>   177
atcaacttgg attttgtcgg ttaattccga aatcgaaaaa gttttttaagt gcaaaacatt     60

taactgtgac atcagtttgt aatgtatctg ggaaggaaat gagatctgta aatccgattg    120

aaaggtttcc tccttatgac tataagaaga aaggatacgg atttatcaat gcgttttttg    180

attacacaac taagagattc aatgataaca caaaggttat tacagtggaa ggtccaccag    240

ctgttggcaa aactgcattt gctaaagctt ggccgaaga tttagatatg aaatactttc     300

cagctgttac tatggatcac tactatatta atgaatatgg gtatgatctc agacaacttg    360

atgataaatt acctgaatca tgtaaaagca tcgattttga taaatttcat aaagatccgc    420

ataatagaaa tgtagcaaca atgcaaattg tgttatatat gaaaaaatat gaacaatatc    480
```

ttgcggctct tgccatttat   500


```
<210>  178
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (492)..(492)
<223>  n = unknown at position 492

<400>  178
gtcattcact ttttacgagt tctttagtgt cctaatttat taataagtat cagaatggtg      60

ccgaaaacaa aagtatttgt tggaagcttg ccgccaggct ccaagcctga agaattacgt     120

cgtttgttcg aagcttacgg tgttgtaaca gaatgtgata ttatgaatcg ttgtggcttt     180

gtacatatgc agaccgaaga gatggctttt agcgcgattc aagcgttgaa taatactaca     240

tttaatgggg ccacgataag tgtcgaaagg ggccgcatca aggaacgcgg atcaggtggt     300

ggtcgtggag gcggtggccg cggcggtcga ggatttggag acgaggagg tggtatgaat      360

cgtagtggtg gaggacctgg gggtatgcgt aatggtggtg gccccatggg aggtggcatg     420

cgtcgtggag gcggtggccc aggacccatg cgtggtggtg gccgtgacat gaatcgtgga     480

caccctattc tngtgatggt                                                   500


<210>  179
<211>  500
<212>  DNA
<213>  Ctenocephalides felis

<400>  179
atttgaatcc tcttatcgat tactaatctt ttgtacagtt taatatttat tatcaaggcc      60

ttgtacgcca gtgtgtgtaa aggtctcttc agtcgacgac agaggataga agtcagagga     120

catttataat acgcagtttt taagtttttt ctggtgaatt tgaatatatt tgaagaaaat     180

gaagaggttt ttggttgctt tggcggtttt ggtggtcgtt gctgaggcta agctgtcatg     240

ttcgagtaca aaagcctcga tccccgaaga atggatcgac atgacagccc agtgcacgag     300

gagcatgagg aaccagatcc aagaagaact gagcgcttcg atgcaatact tggccatggg     360

ggcgcatttc tcaagagaca ctgtcaacag gccaggattt gctgagatgt tcttcaaatc     420

ggcaagcgaa gagagggaac atgccatgaa actcatgtct tacttgatga tgagaggaga     480

actgccgaga ggctgcagga                                                   500
```

```
<210>   180
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<400>   180
aagaagatca agaagaagaa ggcaaaagaa gagtctggag atgccccagc cgctgaagcc      60

gcaccagctc cagctgcagc ccccgccgcc agcgaacgcc aatcatccag gggatcccgc     120

aaagccgtca agcgcagcgg atctaacgtt ttctccatgt tctcacaaaa gcaggtagct     180

gaattcaaag aagccttcca gctaattgac cacgacaaag atggtatcat tggaaagaac     240

gatcttcgtg ccactttcga cgaattgggc cgtttggtac aagagaaaga actcgacgac     300

atgatcggtg aggcctcagg accaatcaac ttcacccaat tgttgacctt gttcgccaac     360

cgcatgtctg atcaggtgg tactgatgat gatgatgttg tcatcaacgc cttcaagacc      420

ttcgacaacg acggcaaaat cgacagtgac aggttacgtc atgccctcat gactggggag     480

ataaattcac tgccaagaag                                                  500


<210>   181
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (5)..(6)
<223>   n = unknown at positions 5 and 6

<400>   181
acttnnctcc atgcaagcct ctcttgaagc cgaagccaag ggcaaggctg aggctttacg      60

catgaagaag aagttggaag ccgacatcaa cgagcttgaa attgctctgg accatgctaa     120

caaggctaac gccgaggccc agaagaacat caagcgttac caacaacaac ttaaggatgt     180

acaaaccgcc ttgaggaaga acaacgtgca cgtgatgatg cccgtgaaca acttggcatt     240

tctgaacgcc gtgccaatgc tctccaaaac gaattggaag aatcccgtac cttattggag     300

caagccgaca gaggccgccg ccaagccgaa caagaattgg gagatgctca cgagcaattg     360

aacgaacttt ccgcacaaaa cgcttcagta tctgctgcaa gaggaaattg gaatccgaat     420

tgcaaacctt gcattctgac ttggacgaac tctcaatgaa gccaagactc agaagaaaaa     480

gcaagaaggc atggttgacg                                                  500


<210>   182
<211>   500
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<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n = unknown at position 5

<220>
<221>  misc_feature
<222>  (34)..(34)
<223>  n = unknown at position 34

<400>  182
agacngctgt ttttgtgttc aaaaagcagt aaantataga aaaaaaaaac ttattactag     60

tgcacattaa caaaaataag cagaacaact attaaaaata tgttttccat gtcaaacctt    120

ttctaaaaac cattcaatgc atagaaatgt aatttttaaa atcaatagta tgattttta    180

aaatatttgg ttttatacca ggagtggact actgaatttc tgcagtgttg ctatggctct    240

caatgatcta gggtacaaag ctgttggtat acgaatagac tctggtgatt tagcatatct    300

ctcagttctg gccagagaaa catttgagag gatagcagag aaatacaaca ttccttggtt    360

tgcaagactc atgataattg catcaaatga tatcaatgaa gacacaatac tcagtctcaa    420

tgaacaggga cacaaaatag attgttttgg aattgggacg catttagtta catgtcaaag    480

gcaccagcac ttgttgtgtc                                                500


<210>  183
<211>  500
<212>  DNA
<213>  Ctenocephalides felis

<400>  183
gtggttcaaa gataatccaa gatgggtaag ggaaataata tgatccctaa tgggcacttc     60

cacaaagatt ggcaacgttt tgtgaaaact tggtttaacc agcccgcaag gaaaattcga    120

agacgtcaaa acaggattaa aaaagctcgt gccttgttcc ctcgtcctgc tgctgggccc    180

ctcagaccaa ttgtgcattg ccccacagtg cgataccaca ctaaggttcg agctggcaga    240

ggttttaccc tcgaagaaat caggggagca ggtttgaatg caggatttgc tcgctcgatt    300

ggcattgcat tagatgttag acgtcgtaat aaatctgtag aatctttaca acagaatata    360

caaagattaa aggaatacag atctaaattg atcttgttcc caagaggtgg aaagaaattg    420

cataagggtg aagcaactga agaggaatgc aaggttgcat ctcaattaga aggcgtcgtg    480

atgccaatta aacaaacttc                                                500
```

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<210>  184
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (4)..(5)
<223>  n = unknown at positions 4 and 5

<400>  184
aatnntattc tgaatactat gttcgatttt agcgttttcc cggcgagctt gatataatat    60

taattgtttg gagtaaaaac aacaaatttt cgaggattaa tttatacaaa aaataattaa   120

aatgaaatta gttaggtttc ttatgaaatt atcacacgaa acagtgtcga tagaattgaa   180

aaatggaact caagtaaatg gaacaataac tggcgtggat gttgccatga atacgcattt   240

gaaagctgtc aaaatgacta ttaaagatcg agatccagta tttcttgata ctataagttt   300

gagagggaat aatattaggt actatattct cccagatagt ttaccattgg agaccctttt   360

gatagatgat acacccaaag ccaaagctag aaagaaggaa gcagctcgag gtggaatacg   420

aggaaggggt cgtggtcgtg gtggcccaga ggcggtcgtg gaggtggtag gggacgtgga   480

cgaagataat aatatttttg                                               500


<210>  185
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n = unknown at position 5

<400>  185
gaatntgcta ctttacaagc cgctattgaa gcaatcagtt caatgaacat gtttgaccta    60

ggaggccaat ttttaagagt gggacgtgct ataacgccgc cgaacgctct tatgggaccg   120

acaactggat ctatgatgcc gactgctgct gctgttgccg cagctgccgc cacagctaaa   180

attcaagcga tggatgcagt tgctagtaat gctgtcgctt tggggctgcc gagtttgagt   240

tcttcaccta caattccgtt atcagtgccg acgatagcgg tgccgcccat cgcaacgata   300

acgccatcag ctcccgttgc tatatccggt gctgttaagt taccaggtgt cgtcataccg   360

cgcaggtgtc gtcgtacctc aagtcataca gcctccagga attgtgacgc cgacatcgca   420

accagttata attccagtat cagtattacc taattgtgaa tcttctccga cgatgatatc   480
```

aacaagctca cctgcacaca   500

<210>   186
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (34)..(34)
<223>   n = unknown at position 34

<400>   186
atttttgcca aacacgatca atctcaagct attntcaaca gacacaagga tgtttttagcc   60

agatggcagc gtctcctggg agactcccgt gctcgcaaga cccgtttgct ggacatgcaa   120

gaacagttca gacagatcga ggaattatat ttgacattcg caaagaaggc atcagctttc   180

aattcctggt tcgagaatgc cgaagaagat ctcacagatc ctgtcaggtg caactcgatt   240

gaggaaatcc gtgccctgag ggaggctcat gcacagttcc aggcttcttt gtcgtctgca   300

caggctgatt ttgaagccct ggcagccctt gatcgccaaa tcaagacgtt caatgttggc   360

cgaatcctta cacctggttc accatggagg ctctcgaaga cacctggagg aacttgcaga   420

agataattgc tgaacgtgat actgaacttg ctaaagaagc tcaacgacaa gacgaaaatg   480

ataaattgag gaaagagttt   500

<210>   187
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   n = unknown at position 5

<220>
<221>   misc_feature
<222>   (473)..(473)
<223>   n = unknown at position 473

<400>   187
caggnttcca caacttgtca ttaatatctc ggtctcttca ctgagacggt aaaagaattt   60

caaaatgggt tacttttatt gtatatcact tttatgcctg ttcactatag ttagctgtaa   120

taccggatta gatcctaaag gtccaaaagt tactcatgag gtatactttg acatcagcat   180

tggtggtgaa cctgcaggcc cgtgtttttga tcggcctttt cggggggcact gtacccaaaa   240

```
cagttgaaaa tttcgtagaa ttgtccaaga aacctaaagg tgaaggatac aaaggcagta    300

aattccacag ggtcatcaag gacttcatga ttcaaggtgg tgacttcacc aggggagatg    360

gaactggagg ccgtcaattt atggagaacg ttttgctgat gaaaacttta agttgaagca    420

ttatggtgct ggatggttgc catggcaaat gctggcaaag acctatggat ctnaattttt    480

atcctacaaa ccctgctggt                                                500
```

```
<210>  188
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  n = unknown at position 5

<220>
<221>  misc_feature
<222>  (525)..(525)
<223>  n = unknown at position 525

<400>  188
atgtnttcgg gcatttagtg ttttgaagta tcgtggcata aagcagattt aagttaatct     60

gcttcattca atacacaaca tggtagggaa acccaacaag atgtatgttt ttaagcgaga    120

tggccgcaag gaagaaattc attttgataa aatcacttca aggattcaaa agctatgtta    180

cggattgaac atggattttg tagaccctgt ctcaataaca ttaaaagtca taaatggatt    240

atatactgga gttacaactc aagaacttga taatctggcc gcagaaactg ctgctaccat    300

gacaacaaat catgctgatt atgccgttct tgcagcacga atagctgttt caaacttgca    360

caaagaaaca aagaaacaat tttcagatgt catggatgat ttgtcaatat gactaatgag    420

tatactaaaa agagatcacc aatgatagca gattatcatc ataaaataat aatggataat    480

gcagatcgca ttaactctgc tattatttat gatagagaat tcagntacaa ttactttggg    540

ttcagacat                                                            549
```

```
<210>  189
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (532)..(532)
<223>  n = unknown at position 532
```

```
<400>  189
gttatttgtg aaataaattt attataaaat gttagatcta tttacaatat ttagtaaagg     60

gggcatagtg ctctggtgct ttcagagcac tagccacata tttgcaccat ctgtaaatgc    120

acttattaga agtgtcatat tgcaggagcg atctggaaaa aatacctacg accacgattc    180

cttaacattg caatataaat tagacaatga atttgagctg gtgtttgtgg ttgcctttca    240

gaaaattttg caactgtcat acgttgataa atttttaaat gatgtacatt tagagtttag    300

agataagtat aagaatgact tacaaaataa aaggtatttt caagaatttg actttggtgc    360

ttgttataac agtattctgc gggcggctga agaatggggt cggactcagg ctaagttacc    420

taaacaaatg cgttcttttg aagattctat gaaatctaaa aagacagttg cttcaatgat    480

tgaaagaaag ggcgagggaa aaaaagaccc cagaagaatg gtaaacaaaa angcaaaaat    540

ggttggttt                                                            549
```

```
<210>  190
<211>  387
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (386)..(387)
<223>  n = unknown at positions 386 and 387
```

```
<400>  190
gacgttctaa gcacggtcgg ggacatgtga accctgtaag atgcacaaat tgtgctcgat     60

gtgtccctaa agacaaggct atcaagaagt tcgtcattag gaacatcgtc gaagcagctg    120

ctgtacgtga tatcacggag gcttctgttt attccgctta cgtcttacct aagttgtacg    180

ctaagttaca ctactgcgtt tcctgcgcta ttcactctaa ggtagttcgc aatcgctcta    240

aggaagatcg tcgcattagg actccaccag tgagatcatt cccaagagat aatcaaaggc    300

aacaaatgc tccaagaaag taaatgttca tattttaaat aaaaaaaacg acaacttaaa    360

aaaaaaaaaa aaaaaaaaaa aaaaann                                        387
```

```
<210>  191
<211>  549
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (5)..(5)
```

<223> n = unknown at position 5

<400> 191
```
attgnttaaa ttaaactgtt gtcatttaag ctttaaatta cacactgaca acggagaagt    60

acagtttatt tcgcaatcgt tatgttaacg ttttctctta catgtatgaa agttatttag   120

ttataattaa aaatggctct gcaaagcttg aaaggttttt ctaaattgtt aaacaaatgt   180

tcgaatcgtg tttcatattt aactgtaaga tgtgcatctc aatattatga catagatgat   240

aacatatttg gattaaatga ggatcaggtt cagttgagga agaccatttt cgattttgcc   300

cagaaagaat tagcacctaa agcagctgaa attgataaaa ataatacctt taaagaactg   360

agagagttct ggagaaaatt aggagacttg ggaacattag gaataactgc tccagcagaa   420

tacggtggaa cagaaggcac atatttagat catgttatta ttatggaaga attatcaaga   480

gcttcgggag ctattgccct ctcatatgga gctcattcta atctagcaat aaatcaaatt   540

cgaaggaat                                                          549
```

<210> 192
<211> 549
<212> DNA
<213> Ctenocephalides felis

<400> 192
```
gcttttaacg ctcttataaa agaaattgtt aaatctattg aaatccttat tcatcggtgc    60

ctattttcgg cttaaagatg gttcaaaaga agcctaagaa gaaggtcgga aagaaagtgg   120

cagccgcccc tttggctgtg aagaagtctg aacccaaaaa gttggttaat cctttgttcg   180

agaagaggac aaggaacttt ggaatcggtc aggatatcca gccaaccaga gacttatcca   240

gatgcgtgag atggcccaaa tacatcagaa tccaacgcca aaagagcgtt ttgcagaagc   300

gtttgaaggt ccctccacca atcaaccagt tcacgcagac tttggacaaa caaacagcta   360

cacagttgtt caagatttta gaaaagtaca ggccggagac tgctattgct aaaaaggcac   420

gtttgcaagc acgtgctgaa gctaaagccc aagggaagga agacacacct acaaaacgtc   480

caaatgttgt acgttctggc acaaacactg tcacaaaact tgttgaacaa aagaaggcca   540

cttgttgtg                                                          549
```

<210> 193
<211> 493
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature

<222> (395)..(395)
<223> n = unknown at position 395

<220>
<221> misc_feature
<222> (407)..(407)
<223> n = unknown at position 407

<400> 193
gctaatttaa aaaccatata cgcttttgcg cgagagatgc attccaaaaa tataaataaa   60

cctatacaat atggtacagc tggatttcgg accaaagcta cagacttgga ctatgtcatg   120

tttcgtatgg gggttcttgc agctcttcgt tcccgtgtta aaagcacagc agtaattgga   180

ttaatgataa ctgcatcaca taatcctgaa gaagataatg gtataaaact cgtagacccc   240

catggtgaga tgcttgaaca aagttgggaa gagttagcaa ccactttagt taacgttagt   300

gattctgagt tagaggctac agttgaaaaa attgtaaaag acttgaatat cgatcttaat   360

ttgaaggcta atgtgtttat tggtatggat acaangtata gtacgtnccc agtctttgca   420

aagctgctgt tgatggagta ttatctattt cggggggatct cccagagaat tttggtattg   480

gtaccgactc cca   493

<210> 194
<211> 482
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (7)..(7)
<223> n = unknown at position 7

<220>
<221> misc_feature
<222> (36)..(36)
<223> n = unknown at position 36

<400> 194
tttttttnata gtgatgcatc ctttatcatt aggagntaat actaattatc caaacaattt   60

gaacaagaat atttattggt ttaatttcaa aaacattttg attttcatat attttatttta   120

tttcatttat tggaggaata ttaattctat ttatttatat aacaagaatt tcaaatactg   180

aatattttc tttaaatatt tataaaacta tttttattat tttattatta acattaagaa   240

ttattattta ttataataaa aattttctat taattttaa caataattcc atatttaatg   300

attttaattc aaacttactt atatataatt ttaatctaaa taaattatat aattttccaa   360

ataatttatt aactattata ttaattattt atttattaat ttcattaatt tgtgtagtta   420

```
aaattacaga tatttttat ggtcctttac gaaaaaattt ttaaaaaaaa aaaaaaaaaa      480

aa                                                                   482
```

```
<210>   195
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (5)..(6)
<223>   n = unknown at positions 5 and 6

<400>   195
gttgnnacag atacgtagct gttaaatgtc attgcgttgc tattttttgat tatttcatca      60

gtatttcaat aaatccaaca tatgtctcgg cacacatcat tataattaaa ttattagttt     120

catttccatt aatttatttt actggcgtca atatgacggt atcaaacgac gaattagttg     180

aatctttttaa agctttaggt ttaagtgaac aaaaggcgaa agaaacgtta aaaaatacag     240

ttgttacgaa aaatttaaca ttagcattac atgaggtgag gggcattatt ttgccccaag     300

gagctggttc tttaatctat tatgtggcaa caaaaatcaa accacagatt atagatcaat     360

tgcctgtact tgtaaaatat atatcaacat caaaattaga cacaacagtt agagttgatg     420

cggccttgca atttatgttg tctcatttaa atggatatca aatcgatgaa tttgagaagg     480

cttgtggaat tggtgttgtt gtacacctga acaaattgaa aaagcagtaa atgaggctat     540

gttggaaca                                                            549
```

```
<210>   196
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   196
ctttagtata ttcggatata atttctatgt tttatcaaat atattgttaa aaatgttata      60

gtgttattgt aaataattag tcattaataa aaaatggcta catatgaaga atttattcaa     120

caaaatgaag atcgagacgg gattaggctt acatggaacg tttggccttc tagtaggata     180

gaagccacta gattagtagt cccgctagca tgtctttacc agcctttgaa agagaggcct     240

gatttaccac caattcaata tgatcctgta caatgtacga gaaatacatg ccgagcaatt     300

ttaaatcctt tatgccaagt tgactataga gccaaattat gggtttgcaa cttctgcttt     360

cagaggaatc cgtttcctcc acaatatgct gcaatttctg agcagcatca accagcagag     420

ttgattgcaa gtttctctac aatagagtac accatcacaa gggcaccatg tatgcctcca     480
```

```
atattttata tgtcatggga tacatgcatg gatgatgaag aactgggtgc tttaaaagct    540

ctttacaat                                                            549
```

```
<210>  197
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  197
ttttttattcg ttttacaaat cagtctcaaa cgataaacac aaagtgaacg ttttaaaaca     60

aacataaaac tgtgcctaat cccattcagt gatcgaaaaa actatataaa accagttcga    120

tagtaataat acataattta cccagcaacg tgcactgtat aacctacaaa tcacgatttc    180

gactgaatga aattatggac gctgaagatt tgaatcagtt ctacaacggg cgggagatgg    240

gtgcttggcc tcccaatgtt ggcatccttg ccatcgaact gacgtttccg tcgcaatatg    300

tcgaccaggc cgaactcgag gcattcgatg gagtgtcagc aggaaaatac acaattggac    360

tcggccaagc aagaatgggc ttctgtggtg accgagaaga tattaattca ttgtgtttaa    420

cagttgttaa aaatttgatg gaaagacatc aagtgcctta tgatagaata ggttatttgg    480

gagtaggcac agaaaccctt ctcgacaaat caaaaagtgt aaaatctgtc cttatgcaat    540

tattcgaac                                                            549
```

```
<210>  198
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (6)..(6)
<223>  n = unknown at position 6

<400>  198
gttttntata aattaatata tcgttctcgt tgttaccaaa ttatattatt taaattaagt     60

gaaaaatatg gccagtgttg tgaagcagtt gccaagaata tccggctcca agtagcgaa    120

atgcatttcg agccgtaatt attattcgta tgtaaatgag cctgcccaac aaatcaaaga    180

caaagaaccg aaatgggtta ctgccgaaga agccgtaaaa attattaaat cagatgactg    240

ggtgtacgct cagggtgcgg ctgctacccc aatcaactta ttaggtgcga tgactgcaca    300

tgggaagaag caaggcctga agaatgtgcg cgtctgccac atgcacactg aaggacctgc    360

attatacgct cagcctgatt gcgaagggat atttagatct gtatcattct tcatgggagg    420
```

```
caacgtacgt gcagctgtga atgaaggacg aggcgatgca attccaatct tcctatcaga    480

aatacctctt ctattccaaa agaaaattat tcaacctgat gtagccatag ttcatgtttc    540

tcctccaga                                                             549
```

```
<210>  199
<211>  544
<212>  DNA
<213>  Ctenocephalides felis

<400>  199
gcttttcgat gttgatgcca aaacagaacc gtgtcgcaat ctacgagcac ctctttaagg    60

agggagttat ggtggccaag aaggactacc atgcaccaaa acacccagaa ttagagcaaa    120

ttccaaactt gcaagttatt aaggctttgc agtcgttgaa atctagagga tatgttactg    180

aacaatttgc atggaggcat ttctactggt atctgacaaa tgaaggtatt gaatacttga    240

ggacatactt gcacttgccc ccagagatcg tgccctccac tctcaaacgt caaaccaggc    300

ccgaattggc aaggccaaga ccagctgccg gcccaggac tgaaggatct cgtccagctg    360

aagacagatc tgctaccgta gggcacctgg tgcacctggt ggcgctgaca agaaggctga    420

tgtcggtgct ggcactggag acttggaatt ccgtggtgga tatggacgtg gcagacctgc    480

cctcaataaa tttatataaa gtaatttata ataaaatatc aataaaacat cttattgata    540

aacc                                                                 544
```

```
<210>  200
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n = unknown at position 4

<220>
<221>  misc_feature
<222>  (6)..(6)
<223>  n = unknown at position 6

<400>  200
tgantnttcc tgttattgca ttcaccaaca ctgattctcc attgaaattt gttgatattg    60

caattccatg caacactaag tccaaccatt ccgttggttt gatgtggtgg ctgttgtcca    120

gagaagtctt gagacttcgt ggatcaattc cccgtgagaa gacttgggat gtcgtagttg    180

atttgttctt ctaccgtgat ccagaggaag tagagaaaga ggatcttgtt cacaaggaag    240
```

```
ttgtggccaa agttgagact gctgttgctc atgatactgc tgaagtatgg gcaggagatg      300

agccagccac tcaattatgg actgatgatg cacctgttgc tgcagttccg gctgtttacc      360

ctgctgctgc cagccaagat tgggccgagc aagtgcaaga agaatgggct gccaacccta      420

ccccagctgc tggtcaaact acttggggaa gctccacaca agaatggtca taaatcaaat      480

gatacttttt gtattggata aatgaaataa atgaaaatta aaattaaaaa aaaaaaaaaa      540

aaaaaaaaa                                                             549
```

```
<210>   201
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = unknown at position 4

<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n = unknown at position 6

<400>   201
catntntgct ttgtggaagg aaagtctaaa ataagaatat aaactatgcc gggtaccggg       60

acgttcaaat tattcatcgg aaatcttgac gaaaaaactc aagcgtcaga tatacgtcct      120

ctgttcgaga aatacgggac ggtcgtcgaa tgcgatgttg tcaagaactt tggtttttgtt      180

catatggaga ccgaacagca aggtcgggat gcaattcaga acctaaacgg ctacgtaata      240

aacggcgagg ccataaaatg cgaagccgcc aagagccgga gggcgccgtc aaccccgacg      300

acaaagatat tcgtcggaaa tttgacagat aaaactcgcg cgccggaggt tcgcgaactg  .   360

tttcaaaaat tcggtacagt cgtcgaatgc gatatcgttc gtaactacgg tttcgtgcac      420

ttggacgcga gcggtgacgt gaacgaggcg attcgggagc tgaacggaat gatggtcgac      480

gggcaaccca tgaaagtgca agtgtccacg agtcgcgtgc gccagaagcc gggcattggg      540

tgatcccga                                                            549
```

```
<210>   202
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
```

```
<222>  (5)..(5)
<223>  n = unknown at position 5


<220>
<221>  misc_feature
<222>  (174)..(174)
<223>  n = unknown at position 174


<220>
<221>  misc_feature
<222>  (502)..(502)
<223>  n = unknown at position 502


<400>  202
atttnagcca accagcaagc agaaacattg cagactcaat taaatctaat gtcccagcaa        60

cgagatgaac ttttggccaa gatgagtgac actgaagaca aatataatag acaagttgct       120

gctctaacca atttgcaatg tgccttagaa caattccaaa gagataaaga tcangaaatc       180

caccaatgca cagaaaggat aagaaaccaa ttggaattgg aacgacagga acaaactgct       240

ttaaggaacg aaatccaatc cctaaaaacg caacttagtg aacaacaaca aggcctgatg       300

gctgcaggaa gacttgccag tcaacttgaa tcctcacaaa caactgtaca aaatctcaga       360

caagaattga aagagagcca agacaaatac gctgctctga ccgccaaagt ggagtcttca       420

aaaaacaacc aagccgacaa aatcgagaag agcttgtaaa aacctaatgc tcggtacatc       480

cagctggtca acaaaacgac angcacaaat ctaaaatata tagcagtctc gacttcacca       540

gtcggatgc                                                                549



<210>  203
<211>  1098
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (511)..(511)
<223>  n = unknown at position 511

<220>
<221>  misc_feature
<222>  (1060)..(1060)
<223>  n = unknown at position 1060

<400>  203
tgtttatatt ccttcaaaat gtccgtacgt gtgcaattcg aaaacaacaa tgaaatcggt        60

gtttttagca aactaacaaa cgcttattgt ctcgtagcga tcggcggatc tgaaaacttt       120

tatagtgtct cgaggctga attggcagag actattccgg ttgtccatgc tagcattgca       180

gggtgtagga tcattggcag gttgactgtg gggaataaaa atggtttatt ggtgccagct       240
```

```
tcgacaactg acacagagtt gcaacatata aggaattctt taccagaaag tgtaaaaata    300

caaagggttg aagaaagatt atcagctttg ggtaatgtga tagcttgtaa tgattatgta    360

gccctagtac atccagatct tgataaggaa actgaagaaa tcctaacaga tgtctaaatg    420

ttgaagtatt ccgcaaacag ttgcagtaat gtcctagtag gctcatacac agttttaagt    480

aaccaagggg gcttagtgcc cccaaaacat ncatacaaga caagacgagc ttcgtcatac    540

tcaagtccgt gtttatattc cttcaaaatg tccgtacgtg tgcaattcga aaacaacaat    600

gaaatcggtg tttttagcaa actaacaaac gcttattgtc tcgtagcgat cggcggatct    660

gaaaactttt atagtgtctt cgaggctgaa ttggcagaga ctattccggt tgtccatgct    720

agcattgcag ggtgtaggat cattggcagg ttgactgtgg ggaataaaaa tggtttattg    780

gtgccagctt cgacaactga cacagagttg caacatataa ggaattcttt accagaaagt    840

gtaaaaatac aaagggttga agaaagatta tcagctttgg gtaatgtgat agcttgtaat    900

gattatgtag ccctagtaca tccagatctt gataaggaaa ctgaagaaat cctaacagat    960

gtctaaatgt tgaagtattc cgcaaacagt tgcagtaatg tcctagtagg ctcatacaca   1020

gttttaagta accaaggggg cttagtgccc ccaaaacatn catacaagac aagacgagct   1080

tcgtcatact caagtccg                                                 1098
```

<210> 204
<211> 545
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (4)..(5)
<223> n = unknown at positions 4 and 5

<400> 204
```
gacnncggtg atgacagagg ccgggatggc gattggacat gtcctagttg ttccaacacc     60

aactttgctt ggagaaatgc ctgcaacagg tgtagtgaag aaagacctga tggtgcaggc    120

ggcggtgact ccggccgagg tggtggccgt ggaggcggcc gcggcggtgg tggtggaggt    180

ggtagttacg gtaaccgcgg aggtggtgat agagattctg gtcgcggtgg tgatagaggt    240

tttcgcggag gtggtggccg cggtggcggt ggcggttatg gaggtggccg cggaggcggt    300

ggtgatcgta attctggagg aggtggctca atgcgtggag gagatagagg acgagatagg    360

caacgacctt attaaataat tagcttgtaa ttttattcac cctcattttc acatcattcg    420

tactcatatt agatttattg atttttagaa ttatttatat gatttgtatg attcaatgta    480
```

```
acacaatatt gtaaatctta tattaagatt taataatata aaataataga aaaaaaaaaa    540

aaaaa                                                                545


<210>    205
<211>    532
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (3)..(4)
<223>    n = unknown at positions 3 and 4

<400>    205
cannatgcca cgaggaaaat ataccaatca caaagggcgt aacaggcatt tcacaaatcc     60

agaagagtta gaggaacaga gaaagcaaga agaacaaaaa aggcaatggc gtagggatca    120

tggaaacgaa tcaagttctg aggaagagga agtagccaaa aaagctgcag gtgataagaa    180

gaaagcccca gggctggaaa gctctgattc agagagtgaa tcggagactg aatcttcaga    240

agatgagaag gataagaaga aaggtgtatc tggattgata gaagtggaaa atcctaatcg    300

tgttcaaaaa aaaaccaaga aactttctac tttaaatgaa acattaactg atagcaaacc    360

acaattgtca agacgagaaa gagaagaagt tgagaagcag agagcgcaag cacattacca    420

aaagcttcat gcagaagcaa aactgtcaag caagatctgt ttagcaagac ttgcatcatt    480

aaacacagcg tgaagaacag cttaaagacc gagttggaaa aaaaaaaaa aa             532


<210>    206
<211>    454
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (5)..(5)
<223>    n = unknown at position 5

<400>    206
atttntgttg gttaactcga gcagtaagaa tatataaaaa tggctgcagt tggcaaagat     60

ttagaaaaac caacagctga ggtgcctcag gtccatcgca tccgtataac tttaacttca    120

agaaatgtac gttcattgga gaaagtatgt accgatttaa taaatggagc caagaaacaa    180

aagctccgtg tgaagggacc agttcgcatg ccaaccaaaa tcttgcgtat taccacacgt    240

aaaacacctt gtggtgaagg ttcaaaaact tgggatcgct ccaaatgag aatccacaaa     300
```

```
agagtcatcg atctgcactc tccatctgaa attgtgaagc aaatcacttc catcagtatt    360

gagccaggtg tagaggttga agtaacaatc gctgatgctt aaattttgta aattgatgga    420

aataaatgac aaaacctaaa aaaaaaaaa aaaa                                 454
```

```
<210>  207
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (470)..(470)
<223>  n = unknown at position 470

<400>  207
cactttgagg ttttgatcct taaccatggt gaacggacgc atcccgtccg tctttcgaa      60

gacatatgta accctcgtc gtccttatga aaaggctcgt ttggaccaag aattgaaaat      120

cattggagaa tatggtctcc gtaacaagag ggaagtatgg cgtgtcaaat acactttggc     180

taaaatccgt aaagctgccc gtgagttgct cacattggac gaaaaggatg gcaaacgtct     240

cttcgaaggt aatgctttat tgcgtcgttt agtacgtatt ggagtgttgg atgaatccag     300

aatgaagctc gattacgtgt tgggtttgaa aatagaagat ttcttggaac gtcgtctgca     360

aacccaagtt ttcaaactgg gattagccaa atcattcacc acgctcgtgt tttgatccgc     420

agagacacat tcgtgttcgc aagcaagttg taatattccc tcttcattgn gcgttggatt     480

acaaaaacac attgacttct ccctcaaatc gccttcggtg gtggtcgtca ggacgttaaa     540

gaggaagac                                                            549
```

```
<210>  208
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  208
cggtaataag ggttgtgatc aacgaatcaa tgacgctgct caatttaagg ctgtacgagc      60

agccatgtca gtcatcgaaa tttctgaaga agaacaaata caaatccttc gtgtcgtcgc     120

agcagttttg catttaggca atgttggatt tactgaaagc gaaggaaaag cagaaatttt     180

gaaacctgaa gctgtgcaat acgccagcga gttattggga tgttcatgtg aagctttatc     240

caaagcactt acacatcgaa ctatcgaacc aggccgaggg ttggcaaagg tcagttctcc     300

tttatcgcga gaaatggcaa ttcatgcaag agatgcttta gcaaaggctg tttatgatag     360

aatgttcact tggcttgtgt ccaggctgaa cgcttctttg caaccggtca aaaccaggag     420
```

```
ctattcggta tgggaatatt ggacatttac ggatttgaga tttccagaaa aatagttttg      480

aacaatttga taaacttttg caatgaaaaa cttcacactc ttatcgagct gcttgaaata      540

gacaagaca                                                              549
```

```
<210>   209
<211>   549
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (34)..(34)
<223>   n = unknown at position 34
```

```
<220>
<221>   misc_feature
<222>   (525)..(525)
<223>   n = unknown at position 525
```

```
<400>   209
attttaataa catgacaaaa aattaaccct atanttgtt taagttattg tattaatata       60

aattatttt atttaatttc attattaaga attataattg gagctttagg tggattaaat      120

aattcctctt tacaaaaat tattacttat tcttcaatta cacatattgg ctgaataatt      180

attgctttaa taaataatga aataaatttt tgatttatt ttttatttta ctttatcatt      240

tctttaatta ttacaataaa ttttaatttt ttaaaattat tttatataaa tcaaatatta      300

tctaattcaa taaattatat aacaaaaatt actttaataa taatattttt atcaatagga      360

ggtttacctc cattttttagg attttttcct aaatgaatta ttattgaatc tataattaat      420

ataaatataa ttttttattc tattattata attttatgta ctttattaat attatatatt      480

attacgattt gcttttctat ttaatataaa taattccaaa ttctngaaaa ttatataaaa      540

taaattttc                                                              549
```

```
<210>   210
<211>   549
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n = unknown at position 4
```

```
<220>
<221>   misc_feature
```

<222> (543)..(543)
<223> n = unknown at position 543

<400> 210
cttntaaaaa ttattaataa ttccttaatt gatcttcctt ctccatcaaa tatttcatta   60

ttatgaaatt ttggttcttt attaggacta tgtttaatta ttcaattaat tacaggatta   120

tttttagcaa tgcattactg tgctaatatt gatatcgcat tttcatcagt tagacatatt   180

tgtcgaaatg taaaattatg gttgattaat tcgtaccatt catgcaaatg gggcatcatt   240

tttctttatt tgtatttaca ttcatattgg acgaggaatt tattattcta gttacaaatt   300

acatgaaact tgatttattg ggttattaat tttatttta gtaataggaa ctgcttttat   360

aggatatgta ttaccttgag gacaaatatc attttgagga gcaactgtta ttacaaactt   420

aatttctgct attccatata ttggaaattc aattgtcaat gattatgagg aggatttgca   480

gtgataatgc tctttaactc gattctttat gatcattttt attccattta ttattctgtt   540

tgnaataat   549

<210> 211
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (4)..(5)
<223> n = unknown at positions 4 and 5

<220>
<221> misc_feature
<222> (34)..(34)
<223> n = unknown at position 34

<400> 211
gacnntataa caaaccgaga ttatttttga aatnaaaggt attaggaaaa attattgata   60

ataacataaa agtctaaatg cttttataat atgacagcaa tgcgtactgc aatgaatgtt   120

gtgtatacag ttttgtggat tctattaatt tcacaaggta cccaaagcgt tgaattaact   180

tttgaactac cggataatgc aaaagaatgc ttttaccaag atattcaaaa aaatacaagc   240

gtcaccttag agtttcaggt cgtcacgggc ggtcagtatg atgttgatgt aacattagaa   300

agcccaaata agcaaattat atatagtcaa gtgaaaaccc aatttgattc gcatcatttc   360

actgcaccga taagtggtgt ttacgttgct tgtttcagta atgaatttc cacgttctca   420

cacaaattgg ttatatggac tttcaagttg gtgatgaaca gctttacccg gtgtcgggga   480

gcatgctaca gtcttaccca acttgaatct ttgccaagag attcatcgaa gtttgccagt   540

```
ttctcaatt                                                                    549


<210>    212
<211>    439
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (5)..(5)
<223>    n = unknown at position 5

<400>    212
aaatncgtta cgtggctgcg tatttgttgg ctgttttggg aggcaaagcc gccccgacct      60

ccggagacat cgagaaaatc ctgagctctg ttggtattga agccgatgct gaacgtttaa     120

agaaagtcat aagtgagctc aatggcaaga gcatcgatga actcattgaa caaggtcggg     180

agaagctttc ctccatgcca gtaggtggtg gtggtgcacc agctgcagct gctgctggcg     240

gcgcccctgc ggctgctgaa gaaaagaaag aagagaaaaa agaggccaaa aaggaagaat     300

cagagtctga ggacgatatg ggtttcggtc tctttgacta aggaatacgt atgccttacg     360

tataatgaaa ttataaattt aaatgtaaca tatgcataag aaataaagtg atttcattta     420

taaaaaaaaa aaaaaaaaa                                                   439


<210>    213
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    213
gtttaagtgt attcaaatca aataattcca taaaactatt ctagaaaata atccaacaca      60

gttagataag atgaagtctt tggtgctctt ggccgttttg gctgtaggtt ttgcaaatgc     120

tgaatattgt tacgatgaaa gtgttactgc ttgttcatcg actgccaata aggaggatct     180

ccctcattgt aatgccctct actccggttt ccacactgtg ctgccgact tatcatcata     240

cgttaaaaga gaagtcctat actcctacga ctacttgctg atgtctacac actttggaaa     300

ctatgaaaag aatcgtgttg gtttcgaaaa actcttcaaa ggcctctccg acaagtcttg     360

ggaaaacgca atcaatgtca tcaaatacat caccaaacgt gggggcactg tcgacttcca     420

gactactcac aatgtcaaca ctactcgtgt agctgaaaca tcagaattgg aagttgccag     480

ggctttggag aatgagaaag tgctcgtaag gatgtcaggc tattcacaaa cgtgtatcaa     540

ctccgacac                                                             549
```

```
<210>   214
<211>   550
<212>   DNA
<213>   Ctenocephalides felis

<400>   214
attttagaat ataaagcttt aattatattt ttaattttat attttgtttt taattatata     60

atatttgaga attatttttg taattttat attgtattta cagtatgtga aggggtttta    120

ggcctttcta ttttagttgc aataattcgt actcatggta atgattattt taaaagattt    180

aatataatac aatgttaaaa tttttaataa taatattttt tataatccct attattttat    240

taaaaaattg ttattgattg gttcaaacaa tattattat aatattattt atttatataa     300

ttttaggaat aaaaagaatt ataattgtta atattagatt aaattttggt tatgatatta    360

tatcttatag attgaattta ttaaggattt gaattattat tttaatatta atagcatcaa    420

ttttaatta taaaaataat tataattaaa ttattttat tattattaat tttttattat      480

taatattatt tttaactttt agtcattaaa ttattttgat tttattttt ttgaagaaga     540

taattccgcc                                                           550


<210>   215
<211>   550
<212>   DNA
<213>   Ctenocephalides felis

<400>   215
ctattcggaa aacttttcct gccgtagggc ccaaacctcc gctaatttct agtgagtgac     60

taaatttaat gtcgtggtaa gtggtgcaac aatgcagatt ttcgtcaaaa ccctcacggg    120

taaaaccata accctagagg ttgaagcttc tgataccatc gaaaatgtta aagctaagat    180

tcaagataaa gaaggaattc ctccagatca gcaaaggtta atctttgcag gtaaacaatt    240

agaggatggc agaacattgt cagactataa cattcaaaaa gaatccacct tgcatttggt    300

gctccgcctt cgtggtggtg ccaagaaacg caagaagaag aattattcaa caccaaaaaa    360

aatcaaacat aagaagaaga aggttaaact agctatttta aaatgttaca aggttgatga    420

aaatggtaaa atatttcgca tgaggcgtga atgccccgga gaggctgtgg agcaggagta    480

tttatggctg tatgacagat aggcattctg tggaaggtgg atcacttatt tcagcaaacc    540

agaagatatt                                                           550


<210>   216
<211>   479
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>  216
tagcacctca aaacctgctt cggctaagag ctcaacaact aaaccagctg ctgccaaacc      60

tgcagctaag cctgctgcta aaccagcagc tggtaagcca aaagctccag caaaatcttt     120

gtctaagcca acaagtgctc ctaagaaagt tactaaagtt gcggctaagc ccaaagttgc     180

tgccaaacca aaacgcaatg tttctgttaa aggacagaaa ggagccaagc ctgcagctaa     240

agcagcagtc aagaaagctt taagtgtgca aaagaaggta attaaaggtg taaatggcac     300

acgcacaagg aaaatccgta cctctgtaca ctttaggagg cccaagaccc tcaggccacc     360

aagaaatccc aaatccccag gaagagtgta ccatctagaa ctcgcatggt gcttacaata     420

ttatcaaatt ccattgccac tgagcagcat gaaaaaaatt gagatccaat acttagtgt      479
```

```
<210>  217
<211>  420
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (386)..(386)
<223>  n = unknown at position 386

<220>
<221>  misc_feature
<222>  (404)..(404)
<223>  n = unknown at position 404

<400>  217
cacaaatagg gattaaaaaa tggctccaag aaaaaacaaa gtagcaaaag aagaagtgca      60

ggtggctttg ggacctcaag ttcgtgaagg tgaaattgtt tttggagtcg ctcacatttt     120

tgccagcttc aatgatactt tcgttcatgt caccgatttg tctggacgtg aaactattgc     180

cagggtcact ggaggcatga aagtaaaggc tgatcgtgat gaagcctctc cttatgctgc     240

tatgttggcc gctcaggatg tggctgagaa atgcaagtcc ctcggcatca cagccctgca     300

catcaagctc cgtgccaccg gtggaaacaa aaccaagacc ccaggaccag gtgctcaatc     360

cgctttgaga gctttggccg ttcttngatg aaaaatggac gcantgaaga tgtgacaccc     420
```

```
<210>  218
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
```

```
<222>  (502)..(502)
<223>  n = unknown at position 502

<220>
<221>  misc_feature
<222>  (541)..(541)
<223>  n = unknown at position 541

<400>  218
gcagagtagg caaagtgtga ctggcacttg tcagcgtttg tcgttcccga gtgctagatt      60

aggttattta ggattgttgg ccgatattcc atcatctggg taggctaaaa tcaaggatcg     120

gaaagacgat cgagacgaac aaccatacaa aaatattttt tagaacaaaa tcaataaaaa     180

tttcaaaatg ttatctcgga ttctaaaacc tcttttaaat ggatctacta gagcgttttc     240

gactacaaac aagaataatg tcaaggttgc ggttttggga gccgctggtg gaattgggca     300

accccttagt cttttattga aacagtcccc tttgatcagt cgcctgaatt tgtatgatat     360

ccttggaacg attggtgtgg cagctgactt aagtcacatt gaaacacctg ccaaagtatg     420

tggttacaat ggcaagaagt tttgtgcaag gcttagaagg agtggatgta gtcgcatcca     480

gcagcagccc tcgtaaacct gnatgactcg tgatgattgg ttgcatcatg cttcattgtg     540

ntgaataat                                                             549


<210>  219
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (444)..(444)
<223>  n = unknown at position 444

<220>
<221>  misc_feature
<222>  (452)..(452)
<223>  n = unknown at position 452

<220>
<221>  misc_feature
<222>  (521)..(521)
<223>  n = unknown at position 521

<220>
<221>  misc_feature
<222>  (542)..(542)
<223>  n = unknown at position 542

<400>  219
gcgacctgta cacgcggtga caactattct gtgttcaatc gaaagttaac gcgcgtttaa      60
```

```
caaaagttttt taaaaaaatc caataaggat aactataaaa taacgttttc agtgattcag      120

ttataaatat tcgtttgtgc atttcatatc attatggcta acaacagagc tgcaaaatcc      180

ggtttcgccg ctgaggcaca aagaaagata aatagcaaat acagcgatga acttgcacaa      240

gaatgcttgg aatgggtcaa aaccattact ggagagcccg aaaatgttag cggcgatatg      300

gacaattttt acgaagtatt gaaggacggc acactgttgt gcaaattagt gaactctcta      360

caagctggtt ctgtaaagaa agtcaatgag agcaaaatgg ctttttaaatg catggagaat      420

ataaatgctt tcttggaagc ggcnaagcta tnggcgttcc tgcgcaagaa actttcaaac      480

ggtgatctgt ggaaagacaa aatcttaatt ctgtgcattt nctcaatcat tagggcgaaa      540

gntggaata                                                              549
```

```
<210>   220
<211>   301
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (32)..(32)
<223>   n = unknown at position 32

<220>
<221>   misc_feature
<222>   (68)..(68)
<223>   n = unknown at position 68

<220>
<221>   misc_feature
<222>   (70)..(70)
<223>   n = unknown at position 70

<220>
<221>   misc_feature
<222>   (84)..(84)
<223>   n = unknown at position 84

<220>
<221>   misc_feature
<222>   (88)..(88)
<223>   n = unknown at position 88

<220>
<221>   misc_feature
<222>   (226)..(226)
<223>   n = unknown at position 226

<220>
<221>   misc_feature
<222>   (277)..(277)
<223>   n = unknown at position 277
```

<400> 220
ctcatttatt atttatttat ttatattagt tntgtgagga ttatttgata tcaatcaata   60

gttattgntn ggagaaatgg cgtncacnac gaaaacttcg aagtattctt acagatcgac   120

cggcggagga aacgctgatg tcagcatcga gtacagtgct gatctcagtg ccctcaccag   180

attggaggat aaaattcgtc ttttacacga tgacctcgaa tccganaggg aactccgtgc   240

caggatcgag cgcgagaagg cagatttgag tgtacangtc attcaactgt cagaaaggtt   300

a   301

<210> 221
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (374)..(374)
<223> n = unknown at position 374

<220>
<221> misc_feature
<222> (402)..(402)
<223> n = unknown at position 402

<220>
<221> misc_feature
<222> (417)..(417)
<223> n = unknown at position 417

<220>
<221> misc_feature
<222> (440)..(440)
<223> n = unknown at position 440

<220>
<221> misc_feature
<222> (443)..(443)
<223> n = unknown at position 443

<220>
<221> misc_feature
<222> (445)..(445)
<223> n = unknown at position 445

<220>
<221> misc_feature
<222> (532)..(532)
<223> n = unknown at position 532

<400> 221
attttcactg gatacaaacg aggtctcagg aatcagcatg aaaacacagc tctcttgaag   60

```
gttgaaggtt gtggtaccaa agccgatagc tggttctatg ttggtaaacg atgtgtattt    120

gtgtacaaag ctaagaacaa gacctgcgta cccggcaaac caaagaaggg taaatcaaaa    180

agtacgcgct atttggggca aagtaacacg gccacatgga tgctctggtt gtgttcgtgc    240

taagttccac agaaaccttc cagcaaaagc aatgggtcat cgtgttcgta taatgctgtt    300

cccatccaga atataaggca taggattcat cttttgttat aaattataaa ataaacccta    360

taaaaaaaat taanaaaaaa aaaaaaaaaa aaaaaaaacc tnggggggggg gcccggnccc    420

aattcgccct atagggagtn gtntncaatt cactgccgtc gttttacacg tcgtgactgg    480

gaaaccctgc gttcccaact taatcgcctt gagacatccc tttcccagct gngtaataac    540

aaaaggccc                                                           549
```

```
<210>    222
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    222
gcataccgac acctccattt ggtgtggcaa aatcatcagc tgaagcagct aaaatagcta     60

cggatttgaa aacaaatgac attgtactca aagcacaagt tttggctggt ggtagaggga    120

aaggccaatt caaatcgggc ttgaaaggcg gcgttcgaat ggttacaacg ccagagcaag    180

cagaaaaaat atcttcaaaa atgatcaacc aaatattagt aactaagcaa acaggtgaaa    240

agggtcggat atgtaattct gtcatggtca cagaaagaaa gtttccccga cgagaatact    300

atttggccgt tatgatggag cgagcttttt ctggccctgt aattattgct tcatcacaag    360

gaggagttaa tatcgaagaa gtagccgctg aagatccaga agcaataatt tatgaaccaa    420

ttgcataatg aagggaatta cacatgaaca gacaaaaaaa ttgttggcaa ttgacttgaa    480

gatcatgcag aattaccgca gaatttagag aaatgtatga ttggtttttaa agaaagatcc    540

tctattgaa                                                           549
```

```
<210>    223
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    223
gcgctattga gtcgcacgaa taatttaaca aattatatat ttaagtggaa attagataaa     60

ttaataggac aaaacgtagc agtaatttca tgctcttact ccacaaaagg atcaaaagtg    120

tatgaagatg cttcagaagc tgttaaagat ataccaaatg gagcaaaatt actagttggt    180

ggttttggtt tatgtggaat tccagagaat ttaatcgctg ctgtattaaa acatggtgtt    240
```

```
tctggattaa ctgttgtttc caacaatgcg ggtgttgata cgtttggtct gggattactg    300

ttaaaagaaa aaaggatcaa acgcatgatt gcttcatacg tgggtgaaaa tgctgaattt    360

gaaagacaat atttaagtgg tgaacttgaa gtagaattga ctcctcaagg aacattagca    420

gaaagaatcc gagcaggagg agctggtatt cctgtttttt cacaccaacc gttatggacc    480

cttgtcatga aggaggcgct ccattaaata tggaaagaaa ggagaggtag aaattagagt    540

cacctagct                                                            549
```

```
<210>    224
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (538)..(538)
<223>    n = unknown at position 538

<220>
<221>    misc_feature
<222>    (543)..(543)
<223>    n = unknown at position 543

<400>    224
aaagtctttt atcaatagtc ttttataaag cactttctac caggatacaa tttaaattac     60

attctataaa taaaaaagct tactattaaa atgaacataa ataccagaat gccataagtg    120

tcttttctct cttatataca taataacatt tcaataaata tttgtataaa aataatatct    180

gaaatatgta cataactaaa ttaataggca aatctcattt caggattata tcctaattta    240

tccagactag gctggcatgc aaatttgatc attggtggag gaccacacat aagcactaga    300

gtatcatcgg aaggaggaaa caaatgttct gcaatcatgt ctgagtttat aaaaccagtg    360

ctatatttcc aattgtctgg tgggctatca agagtatacc ataatttaaa ttgagttgga    420

tcattttttag caatttcttc caatctatca cgcctaatat atccttttca gtctggttgc    480

aatatcaaag cgattcagtt gatctggggt tttacaattc ctcactaact gagcatgngt    540

aantctgac                                                            549
```

```
<210>    225
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    225
gccattttca gtttgaagtg tcagtgatat aataataatc ctaaagtgca atgacatttt     60
```

```
tttatataag agatgtttct tacaaagtta aatttcaagt tattctctcc caataacttt      120

accttagcga taataaaaaa atattcgtgt ttaacgtgcc aaagtctaac cctactttcc      180

tctagcttta caaagcaaga tgaatatagt ttattaccaa ttagaaatta ttcacaaaat      240

actaaaaacg aattagctca ttgcaacatt ggcactatag gtcatgtaga tcatggcaaa      300

acaacattga cagcagcaat aacaaaaatt ttatcaaaaa atggttctgc aaaatacata      360

tcttatgatg aaattgatcg agctcctgag gaaaaagcca gagggattcc atcaatgcag      420

ctcatgttgg gtatagcact actaagagac attatgctca tacagactgc caggtcatgc      480

cgatttgtaa aaacatgata tcagggctta caaatggtgg accatttaga gtggtgcaac      540

agaaggcaa                                                              549
```

```
<210>  226
<211>  549
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>  226
gaaaaaaagg ctccaaagga tgcctccaaa aatcctatga gggaccttca cattaggaag       60

ttgtgcctta atatttgtgt gggagaatct ggtgacaggc tcactcgtgc agcaaaggtg      120

ttggaacagt taacaggtca acagcctgtt ttctcaaaag ctcgttatac cgtcagatct      180

ttcggtatcc gtcgtaatga aaaaattgct gtccattgta cagtccgtgg agctaaggcc      240

gaagaaattt tggaacgagg tcttaaagta cgagaatatg agttgaggcg agacaacttc      300

tctggaactg aaactttggg tttcggtatt caagaacaca tcgatcttgg aattaaatac      360

gatccatcca ttggtatttta tggtttggac ttctacgttg tactcggacg accaggtttc      420

aatgttgcca cagaagcgca agactggcaa agtggtttcc aacccgttgc gaaagaagat      480

gctatgaaat ggtccaacag aaatatgatg gtatatttta tagtaaaagt gagaagacat      540

tttctgtat                                                              549
```

```
<210>  227
<211>  365
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>  227
ctaaaccgag gcttcaaaac tacgaaaata ccttctggta agccaggcgg cgaaaagaaa       60

ttcaaagtac gccccgctcg cgtaaaggga atccaaacaa aacataccaa atttgtccgt      120

gatttggtaa gagaagtcgt tggacatgcc ccttacgaga aaagagctat ggaattgtta      180
```

```
aaggtttcaa aggataagag ggccctcaaa tttttgaaaa gacgcttggg aacacatatc    240

agagctaaga ggaagcgtga agaactttct aacatcttaa cccaaatgcg taaagcacat    300

gctgctgcta cacatactaa gtagatatga ataaagctgt ttaattgtaa aaaaaaaaaa    360

aaaaa                                                                365
```

```
<210>    228
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    228
ggacaatgaa gcaaatcgta acaaatcaat ctgtgaagat tccagaaggc cttacggtca     60

ctgtgtcatc gagacaggtc actgtcaagg ggcccagggg agtattaaaa cgctccttca    120

aacatttagc agttgatatt cgtatggtca atcctagatt attgaaagtt gagaaatggt    180

ttggatcaaa aaaagctatt gctgcagtta ggactgtttg ctctcacatc gaaaacatgt    240

tgaaaggtgt aactaaaggt tatcaataca aaatgcgtgc cgtatatgct cactttccca    300

ttaattgtgt gaccacggaa aacaacacag ttatcgaaat ccgtaatttc ttgggagaga    360

aatacatcag acgggtaaag atggcccctg gtgttacagt gatgaactcc cccaaacaaa    420

aggacgagct gatcttggaa ggaaactctt ggaagatgta tctaaatcag ctgcattaat    480

ccacagtcgc cctgtaaaaa caaggatatc agaagtcttg gatggcttta tgtgttgaaa    540

actcagtgt                                                            549
```

```
<210>    229
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (548)..(548)
<223>    n = unknown at position 548

<400>    229
gtctacatta ttttgtttca gtacgggttg accaatcgct catcaacgac gataaataaa     60

acactattaa ctgcaaaacg caagttgacg aatatttttt aatttaaact tataaatagc    120

atccactgaa atcattttga ataaatattt cacgatgtct atcaacgact gtgaagagaa    180

acgagaaatc atcgaaagga agttggaaat tccggatttc gcgttgaagc atccccttca    240

gcacacatgg actttgtggt attttgaaaa cgaccggcaa aagacatggg aagaaaatca    300

acgagaaata gtcagttttg ctacaattga agacttctgg agtgtttata gccatataaa    360
```

```
gatggctagc gaattgcgtc aaggatgcga ttattccttg ttcaaaagcg gcatcaggcc      420

aatgtgggaa gatgacgcca ataagcatgg aggaagtggg ccatcaccat ggcaaaaagc      480

agcgacaaat gatttggata gaattggtgg caccctctct gttaatcgtg aacttttgaa      540

attccacna                                                             549
```

```
<210>   230
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   230
cgctgaaatc atctcgcgat aacgttttga atgtgtttta tatgaaaaca gtggctattt       60

atttactcga tatgtgtcca cagtaaagta tttgtgattt attcaagtgt tgtgtgctga      120

tttagtttgt tcaatagaac ctaaaaaaga acaaggtttg tggtgtttgt gcttacaacg      180

ttttaggatt ttgaattcgt gactctacgt ggataacgct agacttccag gcatagcaca      240

atgccggaag agaccaaagt ggaggcggat gcacctcata gtcctgccaa gcaaaaacgg      300

tcatcaggtg gaagaactgt tttggctaaa gtcgacctac tagatggatc agttcttgat      360

ctccatattg aacgtaaagt gaaagcaaag gagctcctgg ataaaatatg tgaagcttta      420

aatattttgg aaaaagattt ctttggctta tctcagtcac catctgatcc agagtctggc      480

tggatccaga aagacagtgc taagttctta aatctgacca tgggtgtgca tcgagtaaat      540

ctcccccag                                                             549
```

```
<210>   231
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (33)..(33)
<223>   n = unknown at position 33

<220>
<221>   misc_feature
<222>   (189)..(189)
<223>   n = unknown at position 189

<220>
<221>   misc_feature
<222>   (451)..(451)
<223>   n = unknown at position 451

<220>
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<221> misc_feature
<222> (495)..(495)
<223> n = unknown at position 495

<220>
<221> misc_feature
<222> (547)..(547)
<223> n = unknown at position 547

<400> 231
aaggatttaa ttttagaaag tttatcttca atnaatttta attttttaat ttatttatta   60

ttttatttta gaattgggtt gactgtatgt tattcttttc gactaagaag aatattattt   120

tttaattctt ttaattattt tagtttaaat ttttttaaatg atgaatttaa taaaataatt   180

aaaataagnt ttattttaat aattttttct ttatgttttg gtaagattat gattaatttg   240

attttttata ttcctaatat attttttatt agatttataa taaaaattat agttataatt   300

atatcttatt aggattatga gtagggttag aaattaggta ttataaaatt gggtataatt   360

attttaatag aaaaaaatta gtatttttttg gaaatatatg attttttccag taatttctgt   420

gtttatattt ataaaccgta attatggaat natttaataa agatggtgac aaggatgatt   480

agaattatag gatcnaaaac tattttaaat attcttatta tctaaaaatt ttataattca   540

aataatnta   549

<210> 232
<211> 548
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (531)..(531)
<223> n = unknown at position 531

<400> 232
tatgcccctc aacattcgaa gagaatctga ttcctacaaa tttcaaaggc atagaagatt   60

ttgtgcaagc aactgcccac ggtaaagctc aagaagtttt ccaaaggcta agtgaacaaa   120

atacaccacc cgatgttgtt ataggggctg atacaatggt cactttagac ggtatgcttt   180

ttggtaaacc caattctgaa gaggactctt ataacacact atcaaggttg tcgggaagag   240

tttgtaccgt gtacacagga gttgtaatca aaacacagcg caaaacggtc aagttttgtg   300

acaataccaa agtccatttt ggaaaactca ctccggcagt gataagagca tatattgcat   360

caggagaacc catggacaaa gctggaagct ttggagtcca aggacgaggt gctagtctta   420

ttgaaaaaat ggtggtgatt attttacagt tgtgggttac ctctacataa attatgtgtc   480

```
gagttaaatt cttatgtgaa aatattaata tattataatg tgatattttg naaatatatt       540

ggttattt                                                                 548




<210>   233
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (547)..(547)
<223>   n = unknown at position 547

<400>   233
cttgtcatat attagtgaaa atgttattac aaataacgat tgttttaagc actattggat        60

tagtttgtga caggtgccac gggaatgaaa tcattaccca gtttgatgaa gtaacagagt       120

cagattttgc atttccagaa gattttcaat ttggttgtgc tactgctgcg tttcaagttg       180

aaggagcatg gaatgaaagt gctcactttt gcttattagg aaagggagaa aatatctggg       240

atagactgat acattccaag ccagatttag taaccgatct tacaaacgct gatgtcgctt       300

gtgattctta tcacaaattt aaagaagatg tggctgcact caaaactatt ggtgtcaatt       360

tttatcgttt ttccatatcg tggtcacgag tgcttccact ggtgacgcat ccgtaattaa       420

cgaggaagga atccaatatt attctgattt aatagacgaa ttactaagaa acggattgaa       480

cccgtggtga ctctattcac tgggatgtca cagccttaca gaattggagg tttataatcc       540

gtcatancc                                                                549




<210>   234
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   234
attcttcacc tgattttttt aaaatctaaa gattttcaaa aaaaaattac gattttttct        60

cgtgatgttt ggcgggggaag ggggggtggta attctgaata ttacccaggg gggatagaag     120

gtccagaaat ccttaaaaag ttgatcacgt tattaatgga caccccctaa ttgatgatac       180

aaagatgaga atttacatat ttctaatttc tattaatcac gtgaggtttt taggggggga       240

aggggtttta tagtaagata tcacgtgtat ttattttttta cctgattttt ttaaaaaact     300

caaattattt taaaaaaaat gaagattttt acgattttttt cgtaactaaa aatacacctg     360

atgtttgctg gggcgatgag gggggaattt tgaatattac caagggagag ggggttccag       420

aaatccttaa aaaatttatc atgtgaccaa tggcgccccc ttaggattaa tatgcagtaa       480
```

aagttttttta ttcttattta tttaaaaaaa tgccatgttg tggtcccaat aaaaacgtac   540

gatctattt   549

<210>   235
<211>   186
<212>   DNA
<213>   Ctenocephalides felis

<400>   235
aatggacaaa caatttgtta ccttcccgtc aatttgggta tgtagtctta acaacgagtg   60

gtggtattat ggatcatgaa gaagctaggc gtaaacattt gggaggcaaa atattaggat   120

tcttctttta agctgtatta tgtcctgaat aaatcagatt tctacaacaa aaaaaaaaaa   180

aaaaaa   186

<210>   236
<211>   343
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (33)..(33)
<223>   n = unknown at position 33

<220>
<221>   misc_feature
<222>   (39)..(39)
<223>   n = unknown at position 39

<220>
<221>   misc_feature
<222>   (323)..(323)
<223>   n = unknown at position 323

<220>
<221>   misc_feature
<222>   (325)..(325)
<223>   n = unknown at position 325

<220>
<221>   misc_feature
<222>   (330)..(330)
<223>   n = unknown at position 330

<220>
<221>   misc_feature
<222>   (334)..(334)
<223>   n = unknown at position 334

<220>
<221>   misc_feature

<222> (340)..(340)
<223> n = unknown at position 340

<400> 236
aagaagttga aaagattgtc acaattatgt ctncccccang acagttcaag attccagatt   60

ggttttttgaa tagacaaaag gatattgttg atggtagata cagtcaattg acctcatcca   120

atttagactc aaaattgcgt gaagatttgg aacgtatgaa gaagatcaag gcacacagag   180

gcatgcgtca ctattggggt ctgcgtgttc gtggtcaaca caccaagacc actggccgca   240

gaggtcgtac tgttggtgtg tctaagaaga aataagatac atatgtattt ttttatttaa   300

taaattctta ttctacacca tanantaaan aaanaaaaan aaa   343

<210> 237
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (421)..(421)
<223> n = unknown at position 421

<400> 237
aaacatgtca cactaagtca tcgtatgaaa cgtgttccaa gaactgtttt tcccaaaaat   60

atgaccatgg tcgtaaaaga agttactgaa atacttgaag atggtgccaa gtttgaagat   120

ggttcaatag agaaattcga cattatttta tattgcacgg gatatctata tagttttccg   180

ttccttagtc ctgagtgtgg aattaccgta tctgaaaatt atgtccagcc attatataaa   240

catttagtta atatcgaacg tccaacaatg gcactaatag gcattccttt ttacgtttgt   300

gcagctcaaa tgtttgattt gcagattcgg tttgtagttg agtatttgtg tggcaaattt   360

caattgccgt ctaaagaaga aatgagagcg gatactgaac gcgacatgca aaaacgatgg   420

ncacgtgggg atagcaaaag gaaagcccat attatgggcc cagatcagga ggcctattac   480

aatgatttag cactactgtg gatactcaat tcccagtatg ctaaatccaa tgtgtagcga   540

agattcttg   549

<210> 238
<211> 549
<212> DNA
<213> Ctenocephalides felis

<400> 238
ggaggtggta ctggatctgg tatgggtact ctacttattt ctaaaatcag agaggaatac   60

ccagacagaa ttatgaatac ttattcagta gtaccttcac ctaaagtgtc agacactgta   120

```
gtagaacctt ataatgccac tttgtctgtt catcaattag ttgaaaacac agatgaaacc    180

tattgtatcg ataatgaagc tctctacgat atctgcttca gaactttgaa actcaccaca    240

cctacatatg gagatcttaa tcatttagtt tctttaacaa tgtctggagt cactacttgc    300

cttagatttc ctggacaatt gaatgcagat ttgaggaaat tggctgtgaa catggtacct    360

ttccctcgtt tgcacttctt catgcctgga tttgcaccac tcacatctag gggaagccaa    420

caatacagag cactcaccgt ccagaattaa cacaacaaat gtttgatgcc aagaacatga    480

tggtgatgcg atccccgcat ggtcgtactt gctgtggcac tggttcagag gcgcatgcat    540

gaaagaagt                                                            549
```

```
<210>   239
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (537)..(537)
<223>   n = unknown at position 537

<400>   239
gtggcccagg acccatgcga ggtggtggcc gtgacatgaa tcgtggagca ccctattctc    60

gtgatggtgg tcgtggagga gattttggtg gacgaggtgc tgggcccatg cgcaatggta    120

tgggcggcgg cggcatgggt ggtggttatg gtgaccgcgg cggttctatg atggacggcg    180

gcatgggaat gcgtggtaat ggcgttggag caggtggaat gatggaccgc agaggtggcg    240

gcatgggagg cggaatgggc ggcggtggcg gttacccgga tggcggattt tctggtgagg    300

acagacgcgg gttcgcgctg ccgcagcttg gcggcggcgg tgcgggcggc gcttacagag    360

acttagactt aggtcaaggt ggttatgata acatgtacat ggatgaccga agaggtggag    420

caccaccgat gatggatgat aggcgaggcc tgcaggtcca atgcgtcacc aatgcccatc    480

ccccaatgtt tgacaggagg cgctgtgtcc aggagcatgg tggtggaccc gtgattntca    540

caaaattct                                                            549
```

```
<210>   240
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   240
tctcattgtc gatctcatta ctccacgata ctccgtacag gagacacttt acatagaaat    60
```

```
taagtgcgtg gtgaaatcat tcaatcgacc attaaattta agttaagttc agtttttat    120

caagttattt aagtgacagt taagtgccgt ttttcgatcc atgttctgtg caaaaacgac    180

aggatgacgt tgaacgacga aacagcaacg gatgccatcg ttaacggcga tggccttgac    240

cgagacacgg gagggctgga aaaggaccct aacacaagga agaaaatgga gttatcgctg    300

catgaacgcg atagagttgg ggtgcaagat tctgttcttt tagaagacta cacaaatgaa    360

tcagttttcg tcgataatct taagaagaga tttggagaag accttatata tacatacatc    420

ggcaagtact ggtatccatc aacccttaca aagaactaaa tatatacaga gaaaagatgt    480

tttgaatatc aaagaagcgt tttccagcct acctacgtat tgcggtgaga tatgcattag    540

atcactgct                                                            549
```

```
<210>   241
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (521)..(521)
<223>   n = unknown at position 521

<220>
<221>   misc_feature
<222>   (547)..(547)
<223>   n = unknown at position 547

<400>   241
cttaaggcca aggctgagaa ggagaaggcc caatacttcg gtgaattgaa tgaacttcgc     60

tccggagttg accaccttgc taacgagaag gccgcacaag aaaagattgc caagcaattg    120

caacacagcc tcaacgaagt acaaggcaaa ttggatgaaa ccaaccgcac cctcaatgac    180

ttcgactccg ccaagaagaa gttgtccatt gaaaactccg acctcttgcg ccaattggaa    240

gaagccgaat cacaagtttc acaattatct aagatcaagg tgtcattgac cacccaattg    300

gaagacacca aacgcttggc tgatgaagaa agccgcgaac gtgctacact tttgggcaaa    360

ttccgtaact tggaacacga cctcgacacc gtccgcgaac aagttgaaga ggaagctgaa    420

ggcaaggccg tttgcaacgc caactcagca aggctacgcc gaagctaatt gtggcgctcc    480

aaatccaatc tgaggagtcg ccgtctgaga ctcgaaaagc naagtaattg cagccgtctg    540

ttaactnaa                                                            549
```

```
<210>   242
<211>   426
```

```
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  n = unknown at position 3

<400>  242
aantggtgca gcgtttagta taccgacgac gtttgtcgta caacacaaaa tctaacagga      60

ggagggttgt ccgaactcca ggtggtaaac tagtgtatca atatttgaag aaacccaaga     120

agatccccag gtgtggacaa tgcaaagaca aactcagagg catccagcct gccaggccca     180

tggaaaggtc cagaatgtgc agaagaaaga agacagtacg tagatcatat ggtggagtac     240

tctgccacaa gtgtgtaaaa gaacgtattg tcagggcttt tctaattgaa gaacagaaaa     300

tagtcgtaaa agttcttaaa gcacaacaag caagtgttaa agcggctaag aaggataaat     360

agacctaatt ctatgttaaa tataacataa taaaaacttt ctcaaataaa aaaaaaaaaa     420

aaaaaa                                                                426



<210>  243
<211>  485
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (436)..(436)
<223>  n = unknown at position 436

<400>  243
aatccaacgc tttgcaatcg aatttatttta gcatatcagg agattcttgg caaaaattaa      60

gaaatgctct gtcaccggca tttacatcgg gaaaacttaa agctatgatg gagattatta     120

ttagatgcgg taaaaatttg caagaatttc ttgaagaaaa atccaacagt aaagaagaac     180

tcgaattcaa agacttggct gcaagataca caacagatgt aatttcttca gtagctttag     240

gcaatgaagt aaactcagtg aaaaatccaa atcacgaatt tcgcgaaatt ggcagaaaaa     300

tatttaattt acccacaaga tgggatgttg catgtcatta tgttttcat gtcacctgaa     360

atcctgaata aatttaaatt ggcaaatata agtcgtgaag tttatgattt catgatgaat     420

gtgtagacaa acagtncctt tagagaagaa aataatatac agacctgttc atgcactttt     480

gatca                                                                 485



<210>  244
```

```
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (531)..(531)
<223>  n = unknown at position 531

<400>  244
atattcttca caattattgc agcgattcat ttcacaggac acagggtgcc gtatgatttt      60

gtaaataaaa ttgtaccatt attaccaggg tctaccacag gctggcagct aacaggatgt     120

gccataatgg cactttgtct atggttaact ataattttcg ttttaagata cacatttaaa     180

ttgttactga tgtacaaagg atggatgtat gaggccagag ggaaagggac ttctgtttcg     240

ttaccgacaa agatttggct tgtgctagtc aaaatcatgt ccggttggaa caaaccagga     300

ttgtacagtt atcaaggatc actgccaaga ctgcctttac catcggttga agacacaacc     360

aaaagatatc ttagaagtgt ccgtccctta ttggatgatg ccagttacaa gcgcatggaa     420

ggtctgactg aagaattcaa aaaaggcatt gcagtgaaac tgcaaagata tctcttctga     480

aatctgtggc gagcactatg tctcagatgg tgggaggatt gttattgaga nggagaggac     540

cttatggtg                                                             549


<210>  245
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (498)..(498)
<223>  n = unknown at position 498

<220>
<221>  misc_feature
<222>  (533)..(533)
<223>  n = unknown at position 533

<220>
<221>  misc_feature
<222>  (543)..(543)
<223>  n = unknown at position 543

<220>
<221>  misc_feature
<222>  (546)..(546)
<223>  n = unknown at position 546

<400>  245
```

```
attttatcga tttgcttgtt ttcgtgtgca tttttgacgt ttcatatttt tcgaaaacgc          60

ccataagtat taaaacttaa aatggccagt tacagtgaag atcaattggc agagttccaa         120

gaagcctttc aactatttga ttctcggggt gatggtaaaa tagatgttag cttggttgga         180

gatgctttga gagctcttgg tcaaaatcct actgaaactg aagtcaaaaa gttcacccat         240

caacttaaac atgatgaccg catttctttt gaagtatttc tacccatata tcaggctatc         300

tcaaaagggc gctcagcaga tacggctgaa gattttattg aaggtttgag gcactttgat         360

aaagatggga acggttttat aagttgtgcc gaattaagac atttgctttg tactttgggg         420

gaaaaactta ctgtgaggag gtcgagcaat tgcttcaaaa ccaagaagat ctcaagcaac         480

atcaattatg aagattgnaa gaatggcatg tccggtgaat cataaattga agntttaata         540

acntcntca                                                                  549
```

```
<210>   246
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   246
gctgatgatg ctgatgtaga tatggttgta agagcagcag tatttgcctg cgttggaact          60

gctggtcaga ggtgcacaac aacccgacga ttaatcgtac acgataaagt ttacgatgaa         120

gtgatctcac gattgaagaa agctttcgct caagttctta caagaattgg tgatccattg         180

gacaaagata ctttatatgg acctctacat tctgaaaatt ctgttaatga atacaagaga         240

acgattgaag aagctaagaa attgggcggt aaaattgaat ttggaggcaa ggtggtagac         300

aggcccggat tcttcgtcga acccacaatt gtttctggat tggcccatga tgcccctgta         360

gttcgcagcg agtgctttgc cccaattgta tacgccttga gagcctcttc tgtccaggag         420

gccttcaaat ggaataatga agttgaccag ggattatcat ccagtctctt cacccaaagt         480

attagcacgt tttcgattgg ataggccatg ggtcagactg cggattggaa cgtcaacatt         540

ccacatcag                                                                  549
```

```
<210>   247
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   247
ccaaaatgaa gttgaatgtg tcttacccgg caacgggatg ccagaaattg ttcgaaattg          60

tggacgagca caagcttcgt gtcttctatg aaaaacgtat gggagcagaa gtcgaggccg         120

acatcctcgg cgatgaatgg aaaggttatg tactccgaat tgcaggagga aatgacaaac         180
```

```
aagggttccc catgaaacag ggtgtcttaa ctaatgttcg tgtacgtttg ctgttgtcaa    240

aggggcactc ctgctaccgc ccccgtcgta ctggagaacg taaacgtaaa tctgtacgtg    300

gttgcattgt tgacagcaac ttgtctgttt tagctcttgt cattgtacgc aaaggagtca    360

atgaaattcc cggattgacc gacggcaatg taccaagaag gcttggaccc aagagggctt    420

caaaatccgt aagctgttca acttgacaag gaagatgatg tacccgtatg tcgtcagacg    480

tccacttcca gtcaaagaag gtaagaaccc gtacaaaggc ccaagatcca aagctgtcac    540

tccacatct                                                           549
```

```
<210>  248
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  248
attaaaaaaa aatctcaaat cgatcataaa agttttaata ttaatttcag taattaatac     60

aacttctgga tcagatgcta acaaatacga agccacctgg gagagtttgg atagcagacc    120

atctcccagt tggtatgatg atgccaaagt tggaatattt ttacattggg gagtttatgc    180

agtaccaagt tttggcacag aatggttttg gcaaaattgg caaggatcta atgtgtcctc    240

ctacgtggat tttatgaatc agaactatcg accgggattt acatatcaag attttggtac    300

agaatttact acggaactgt ttgatccaaa ccactgggct gagctattcc aagcttctgg    360

ggctaaatat gttgtgttaa caagcaaaca tcacgaagga tacaccctgt ggcatcaaag    420

tactctttca gttggaactc ccaggacgtt ggtgctcata aggatttaat aggtttacta    480

ccaacgcaat tcgcagcaaa accaactacg tttcgtctct atcactcttg tcgatggtca    540

cagacttat                                                           549
```

```
<210>  249
<211>  550
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (454)..(454)
<223>  n = unknown at position 454

<220>
<221>  misc_feature
<222>  (519)..(519)
<223>  n = unknown at position 519
```

```
<220>
<221>  misc_feature
<222>  (529)..(529)
<223>  n = unknown at position 529

<220>
<221>  misc_feature
<222>  (535)..(535)
<223>  n = unknown at position 535

<400>  249
gttatcaaca ggatttgga gatcgtgcaa ggtgtttcca acctagtcta acttcttcat      60

cttcaatatg tgatgaacga ttcacttgga accctgataa tgagcaaaga atgattttac     120

aagaagctct gtccaaagca cacactcatt taggcactgg agcatcaata ggttccggtt     180

ccatttctgg tagctccatt ggttcttctt ctacgtcgtc ttcctcatct agttcttcct     240

caagttcttc ttcatggtct ggcagcggaa tgggagttag ttcaactcaa ggacaaaagg     300

aaattgttca aatcagccca caaaaagtag ggcttaaatt aagaattaat gaagttcata     360

aactaaatgt ttattatgca caagctgaga ttatccagta gattatatta tttgatggac     420

ttgctaagtc tatggaagat gataagagag atgncagcat tggagattac tctcagaacc     480

tgagaaatat actcaaattc cggtgggttt ggactttgng gataagtgng atgcntatgt     540

gcaacatgcc                                                           550


<210>  250
<211>  472
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (440)..(440)
<223>  n = unknown at position 440

<400>  250
gcaaataatt ctgtgttgat atatcttgtc atattaaaaa caagtgaact tgtgaaaatt      60

tgcaattaat ttgggtgaca ataatgagac ttattatatt tatatcgtgc ttggcatcaa     120

gtacggttta aatgtaccta tagtcaaagg cataataaaa acgctagtgg aatttgcacc     180

aagtgttatt gtataaaact gcaatatgat caatataaaa agtatatgtc cttattttt      240

tgtttatatt ttactttcat cttatataaa cactatttta tgtatcccgg taccaatgag     300

gcgctgtgca aagttataca actcaataag tcctcaagcc tcggcagagt acgatgagaa     360

tggcgatata tcaaaagatc tggtcgaaaa tctcttacac aggtgtagaa caatgcacaa     420

gtaattttgt actcttgtgn cggaaaatga aacggtctct catgtatggg ca             472
```

<210> 251
<211> 339
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (13)..(13)
<223> n = unknown at position 13

<220>
<221> misc_feature
<222> (54)..(54)
<223> n = unknown at position 54

<220>
<221> misc_feature
<222> (108)..(108)
<223> n = unknown at position 108

<220>
<221> misc_feature
<222> (139)..(139)
<223> n = unknown at position 139

<220>
<221> misc_feature
<222> (274)..(274)
<223> n = unknown at position 274

<220>
<221> misc_feature
<222> (305)..(305)
<223> n = unknown at position 305

<220>
<221> misc_feature
<222> (311)..(311)
<223> n = unknown at position 311

<400> 251
ggtcctaatt tanttacccc attccaaaaa ttttaaattt ttgccaaaaa tgcntttcta   60

ccatggttaa agctcaaata tccggacttt tttattgcct tattattnga tgaataattt   120

cgattatttg atttcgatnc aaaatctaaa tgaaccagtt taaatccaaa tcaaataatt   180

gaaattattt gtaacaaaaa aaaaatttat aatcccaaaa atataaaaaa tatttatttc   240

tactcattga acacaaaatt cacatagaaa atgngcctgt ttgctataca atatagatta   300

aaatntacgt ncgtatttta ataatttttg catatttat   339

<210> 252
<211> 549

<210> DNA
<213> Ctenocephalides felis

<400> 252
```
ccggcagacc gttttgtttt gctgcattac tcttgttggc gaaattagtg cacgatggct      60

caaccactag ctacatctga tatcaagtat accaagctat tcatcaacaa tgaatttgtc     120

gattctgtaa gcggaaaaaa atttcctact attaatccaa ccaatgaaaa gaaaattata     180

gatgtatcgg aaggtgataa ggccgatgta gatctggcag tcgctgctgc caaaaaagcg     240

tttgcgctaa actcagcatg gcgccagatg gacgcatctg cacgcggaaa gctacttaac     300

aagtttgctg atttgattga aagagatctt caatatttag caaatttaga aaccttagac     360

aatggaaaac cattttctaa tagtatcata gatatacagt gcgctatcaa taccatcaga     420

tattatgcgg ctggtgcgac aaaattcatg gtcatacaat tcagcagatt atggattgcc     480

agcttcacat tcgacaccag tggtgtagta ggtcagattt accttggact tccaatgcta     540

tggtgcctg                                                             549
```

<210> 253
<211> 549
<212> DNA
<213> Ctenocephalides felis

<400> 253
```
aacagctgtt tgtgccgtac ggtggtcccc gcgtgtgtag cattgtagca gtatcaaagc      60

gaagctcgat cgatccggtc gagacgtgaa gcccgcgcga taccccgct tcagagacaa      120

tttacagact ccggagttaa tatcacgaaa ccactttgtg ttcgacttct cagtacgaca     180

gtgtcggtca tttcaaacgc gcgttgtgtg tgtccatcta tcatttacaa cggggttcct     240

gatttttcga aggttcagta ataattttcg tatttcgtta tggcgatgag atgtgtagga     300

ttgctcgtca agagcaccat ggtccagtcc ggacagcgca ggctgatatc ccaatcagct     360

gttgctatga acaggatgct tcaggattca ccaaacgctc acctagataa atcaatcttg     420

caaaggtaca ctcgtcttct caagacgatc ggtcacgcag gtcacttacg tgtggatcga     480

tggacggtga gtacttgccg ctaaggacgt gtcttgaatt aacctccaaa ccagaaactg     540

caaatggac                                                             549
```

<210> 254
<211> 549
<212> DNA
<213> Ctenocephalides felis

<400> 254
```
gttgattata gtccttgacc tttaactgga gctttaggaa ctttaagttt aacattaggt      60
```

```
ataattatat gatttcatca atttaattat acattaatat tattaggaat aataattacc    120

ttattaacta tatttcaatg atgacgagat attagtcgag aaggatcatt ccaaggtctt    180

catagtttaa tagtttctaa aggattacga atcggaataa ttttatttat tatttcagaa    240

attttattct ttttttcttt cttctgagca tattttcata gaagattatc accttctatt    300

gaattaggaa taatttgcca cctttaaata ttaaaatatt taatcctttt caaatccctc    360

tattaaatac agcaatttta ttatcttcag gaatttcaat tcatgagctc atcattcatt    420

actagaaaaa aatcattcag aaacaataaa aagttattta ttcaattatt ttaggaatta    480

tttttctata cttcaatgga tgaattttag aagctctttt caattgagat caattttgga    540

caatttttc                                                           549
```

```
<210>    255
<211>    465
<212>    DNA
<213>    Ctenocephalides felis

<400>    255
gtttgtaacg gcttccaaag atatgactgc taaacttttt gacactgatt cgcttttatg    60

tttgaaatgt tacaaaacag aaaggcatgt aaatagtgcc gccatcagtc ctattaaaga    120

acatgttgca ttgggaggtg gtcaagatgc tatggaagta acaaccacat cctcaagaca    180

gggtatgttt gaaactagat tcttccactt ggtctatgaa gaagaattcg gtcgtgtgaa    240

gggacatttc ggtccagtaa acagcttgaa gttccatcct gatggaaaga gttttgctac    300

aggaggagaa gatggttttg ttcgagttca aaattttgat tatacatatt tagattatgc    360

ttttgaataa acttgagaat tttcatattt gtaatttgtc caatttatac aatgttcaag    420

atgatgaaaa taaagtataa ttatactgta aaaaaaaaaa aaaaa                    465
```

```
<210>    256
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (3)..(4)
<223>    n = unknown at positions 3 and 4

<400>    256
ttnnaccgta gctctaaagt gacgttacaa tgtcgggagg cttggatgtt cttgccctac    60

gggaagatga tgttaccaaa atgttagccg catgcaccca tcttggcagc gaaaatgtga    120
```

```
acttccagat ggagcaatat gtgtacaaac gccgtgctga tggagtacat gtaatcaact   180

tacgtcgcac atgggagaag cttttgttgg ctgctcgtgc tattgttgct attgagcatc   240

cagctgatgt cttcgttatt tcctccagac ctcaaggaca acgtgcagta ttgaagttcg   300

ccaactatac tggtgctact ccaattgctg gacgtttcac tcctggtgcc ttcactaatc   360

agattcaagc tgcattccgt gaaccacgtt tgctgattgt tactgatcct cactccgatc   420

accaacccat cactgaggct tcatatgtga acattcctgt attgcattca ccaacactga   480

ttctccattg aaatttgtga tattgaattc atgcaacaca gtccaacca tccgtggttt   540

gatgtgtgg                                                            549
```

```
<210>   257
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (16)..(16)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (45)..(45)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (82)..(82)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (95)..(96)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (118)..(118)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (128)..(128)
<223>   n = unknown


<220>
<221>   misc_feature
<222>   (131)..(131)
<223>   n = unknown


<220>
```

```
<221>   misc_feature
<222>   (176)..(176)
<223>   n = unknown .

<220>
<221>   misc_feature
<222>   (179)..(179)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (201)..(201)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (297)..(297)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (388)..(388)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (416)..(416)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (437)..(437)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (440)..(440)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (459)..(459)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (462)..(462)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (472)..(472)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (481)..(481)
<223>   n = unknown
```

```
<220>
<221>  misc_feature
<222>  (524)..(524)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (542)..(542)
<223>  n = unknown

<400>  257
aatttgggac gagagnttat tatttaagga taaggtaatt tgcanggtct taagcactat     60

tattttgata aaaatgaatg anaagtcaga aaatnnattt caaacccaat ctgatttnaa    120

ttaccttnct nttattgttg gaataactgt agttttcgtc acattaattt tattcnttnt    180

gtggcaaaga agaaaaggtg ntcgaaggga tatattgata actggactta gcgatgctgg    240

gaaaactttg ttgtattcac agctggttca ttcacagtca aaagatactc atacttnaat    300

tgctgttaat gtcgatgaat acatcacaaa gaatgcgtca gtaagagttg tggatatttc    360

tcccccccaa agattacgtg gaagattntt gatgattaca aagattaaaa cgaggnattg    420

tgtttgttgt tattcancan tttggataaa gacatttgng angtagctga gncttgacac    480

nattctttct gaaaattagt tacttctaat gtccacaaga ttgnacttga atccctgttt    540

gnatatggt                                                           549


<210>  258
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  258
gtggtgttag ccgcgactgt ttcaactatt ttagcggcaa gttgttcaaa tccagaagtt     60

acagccacat ctttcactac gcaagatgct acaattgtta caaatatagc atttattgct    120

gaatttacat taaaatgcag tccaagtgtt cctagtggca tacctttgta tgctgaaatt    180

gatggtaaag taatgccgac tgctagaatt ggagataata ataccaagt tagctggact    240

gaagaaatta acaaagctcg cagtggtgat cataaagtga gattatatga tgaagaaggt    300

tatactgcag ttcgtaaagc tatgcgatct ggtgaagatg ccagtgctgt caggtcattg    360

gtgactatcg ttatttcaca tcctggtgca tttactggtc catgggtcaa ttctgaattg    420

gtgctcatta gctgctgtgg tgtagcttac ttagcattac ttcaaataca aattattatt    480

atagatgatt taattatagt aatgtaaaat ttattattaa atacaatctg attttataaa    540

aaaaaaaaa                                                           549
```

```
<210>   259
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   259
agatggttgt ggtgatctga atatttagta taaatttgtg tttttagcgt tcatttatca        60

gttaagtgat caaaaatgtc tttcaatcaa gatattaaaa cagaaaacgg tggtgaattc        120

gcccaagatg ttgaaatgaa aactcacaat acagacggca gtggtgacgc atcaacaaca        180

caaaatggac acgcgggaaa gcctcgtttc gacgatagaa aattattcat cggtggactg        240

agtgccgaaa ctaccgaaca acaattacgc gatcatttcg ttcaatacgg tgccatcgac        300

tccgtggatg tgaaaagcga cccaaatacc ggcagatcaa aaggattcgc atttttagtg        360

ttcgcgtccg tggactccat tgaaaaagcg cttgcggtca gtgaacatgt cattaattct        420

aagaaaatag acgttaagaa agcaaaagcg aaacacggaa agttttcgtc ggcggttaaa        480

tacaacaata ccgcgatgat attaaaactc atttcggcaa tttggaaatt cgcgagtcga        540

ctcccttgt                                                                549


<210>   260
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (473)..(473)
<223>   n = unknown at position 473

<220>
<221>   misc_feature
<222>   (521)..(521)
<223>   n = unknown at position 521

<220>
<221>   misc_feature
<222>   (526)..(526)
<223>   n = unknown at position 526

<400>   260
gaaacttggc gcttattgga gcacttcttc ttgtacttgc tgaatctcga gtggaaggaa        60

gaagtctttt tgctggaatt cctactatgg gtgattcaag gccaaaaaat tatttacaac        120

tggctggcag aattttacta gctttcatgt ttattacatt aattcgtttt gaattaagtt        180

ttttacaggt tatacaagat ttaattggat ctgttttaat ggtattggta accattggtt        240

ataaaacaaa attatcagct ctgattttag ttctacttct ttcattttta aatttatacc        300
```

```
acaatgcttg gtggacagtg cctacctata agccattaag agattttctc aaatatgatt    360

tctttcaaac attgtctgtg attggaggtc ttcttatgat tgtttccttg ggcccaggtg    420

gagtttcgat ggatgaacat aaaaaagagt ggtagaaaaa tcaggaatat tgngccgtgt    480

gctagtataa caattatata tatatatata tatatatatc ntatcntata tatatatata    540

tatatatat                                                            549
```

```
<210>   261
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   261
cgtaaaatca agaaacttct aagaaaatta atgtcactgt taaaacacca aaagagaaac     60

aaacagtgga agttgaggaa gatgccgaaa ttaaagactt caaaactttg gttgctcaga    120

aattcaacgc agaacctgag caattatgtc ttatttttgc gggaaagata atgaaggata    180

ctgatacttt gaaaggtcac aatattaagg atggtcttac tgtacattta gttatcaaaa    240

ctcctccaag gcctgagcca gaaagggcag ctcagagacc tccagctgat atcagtgcaa    300

caccttttgg attaaattca ctaggaggtt tagttggatt agagtcattg ggtttaggtc    360

aaggttcatt catggattta caagcacgga tgcaaaatga actcatgact aaccccgata    420

tgttaagaaa tgttttagat aatccacttg ttcagcagtt gatgaatgat cctgaaaaca    480

tgagacctta attacatcta atcctcaaat gcaagattaa tgcacgcaat ccagagattc    540

tccatgctc                                                            549
```

```
<210>   262
<211>   502
<212>   DNA
<213>   Ctenocephalides felis

<400>   262
gctgtacact cacgctctcg tgtacgtaaa aatactgaag ccagaaggaa aggtcgccac     60

agcggttttg gtaaaagaaa aggtacagct aatgcccgta caccacaaaa ggatctatgg    120

gtacaacgta tgagagtcct gaggcgtttg ttgaaaaaat accgtgaagc aaaaaagatt    180

gatcgccatt tgtatcatgc actttacatg aaagcaaagg gtaatgtatt caagaacaag    240

agagttctta tggaatacat ccataagaaa aaggctgaaa aggcacgtac taaaatgttg    300

aatgaccaag ctgaagctag gagaacaaaa gtacgtgaag cacgtaaacg acgtgaagaa    360

agaattgcta ctaaaaagca agagctctta caaacttacg ctaaggaaga tgaagcagca    420

gccccaaaaa ataaatgtcc cttccttgta aataaaataa atttatataa atttaaaaaa    480
```

```
aaaaaaaaaa aaaaaaaaaa aa                                              502


<210>    263
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (32)..(32)
<223>    n = unknown at position 32

<220>
<221>    misc_feature
<222>    (512)..(512)
<223>    n = unknown at position 512

<400>    263
ggttactatg cctttctcgg ttcgagaagg tnttaacata tttttggacg gttatgtgcc      60

aactgaaaac atgagattca ggactgaatc gcttgttttt aaagtagccg aatcggcaac     120

cgaggaagag gtgaaacgta tgaaccatta cgtttacccg gcaatgtcaa agacaatggg     180

cgatttccat ctggaaatca aacagggcca gttttcggat ccgaaattt tagtattatt      240

gggcgaaaac ggtaccggta aaacgacatt catcagaatg ttggccggaa acttggaacc     300

tgatgcaggt tctgcgaagt tgccacaatt acacataagt tacaaaccgc agaagatttc     360

accgaaatct caagggcacg tgaggcattt gttgcacgag aaaattaggg acgcatatat     420

acatccacag ttcataacag acgtaatgaa acccatgaaa atcgaagaaa tcatggccaa     480

gaagtccaaa acctctcggc ggcgaactgc ancgcgtcgc ctcgtcttgc tcggaaaccg     540

gccgcgtct                                                            549


<210>    264
<211>    534
<212>    DNA
<213>    Ctenocephalides felis

<400>    264
attcgtgaaa aatattaatt taaaaatgca gaaacaaaag agggaaccta ttcatgctgt      60

ccaagttttt ggcagaaaaa agacagccac cgctgttgcc tattgtaagc gtggacgtgg     120

aaatttgcga gtaaatggac gtcctttgga actcgtggag ccaaaagttc tccaatacaa     180

gttgcaggag cctattctac ttttaggcaa ggaaaaattt gccggtgttg atatccgcgt     240

tcgagtaaat ggaggaggtc acgtcgcaca aatttacgct atcaggcaag caatttcaaa     300

ggctttagtt tcctattacc agaaatatgt cgatgaggcg tctaagaagg aaatcaaaga     360
```

```
catgctgatt caatacgaca ggaccctgtt cgtagcagat ccccgtcgtt gcgaaccaaa    420

gaaatttgga ggtcaggtgc ccgtcacgtt accaaaagtc atccgtaatt tatattatct    480

tttttttaaat tctattataa taaattggtt gcagaaaaaa aaaaaaaaaa aaaa    534
```

```
<210>  265
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (43)..(543)
<223>  n = unknown at position 543

<400>  265
gtgaaaaggc cattctcatc gatggtcgtg gccatctgtt aggccgactg gctgctatta    60

ttgcaaaagt tttgttagaa ggaacaaaag ttgttgtagt aagatgtgaa caactgaata    120

tttcaggaaa cttcttcagg aacaagttga agttcatgtc cttcttgcgt aagagatgta    180

acatcaaccc tgcacgagga ccttaccatt tcagagcacc ctccagaatt ttgtggaaga    240

ctgttcgtgg tatggtgcca cacaagaccg aaaggggaaa gcaagctctt cgcagactta    300

aggcatatga aggttgccca gcaccattcg acagaaggaa acgtctagtt gttccaaaag    360

caatgagagt catgtgtctt aaacctgccg caagtactgc atgttggtcg cttatcaaat    420

gaggttggat ggaaatatca agatgttgtc gtactcttga aaacaagagg agagttaaga    480

ctattcttaa catcaaaaag agaaataatc ttaagaactc ctaagaagga ggtgagcagt    540

cgncaaagg    549
```

```
<210>  266
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  266
gaaaaacaag cagtacttca agcgctacca agtaaaattc aaaaggcgtc gtgatggtaa    60

gaccgattac tatgctcgta agcgtcttac agtacaggac aaaaacaaat ataacactcc    120

taagtatcga ctgatcgtgc gcctttcgaa caaagatatc acctgtcaag ttgcttactc    180

cagaattgaa ggagacaaga ttgtgtgcgc tgcttattca catgaattac caaagtatgg    240

tatcaaagta ggtttaacta actacgctgc agcatattgc acaggcttgc ttttggctcg    300

aaggctctta' caaaagttcg gcttggataa tttatatggt ggctgtactg aagtaacagg    360
```

```
cgaagagtac aatgttgaag ctctggatga tggaccagct gctttccgtt gctacttaga    420

tgttggttta gcacgtacaa ccactggtgc tcgtgtgttc ggagccatga agggtgctgt    480

gtggtggctt aaatattcca cactccacta agcgtttcca ggtatgatgc tgaaagcaaa    540

agctcatgc                                                           549
```

```
<210>  267
<211>  514
<212>  DNA
<213>  Ctenocephalides felis

<400>  267
ctgttaaaac atcaattaca atatgtcaga cgtagaagtt gatgtacctt cttcggcccc     60

agttcttggg ggagccatgg acgtaaacac tgctttacaa gaagtgttga agactgcact    120

tattcatgat ggacttgtac atggtttaca cgaagccacc aaatctctgg acaaacgaca    180

agcagttctt tgtgttttgg ctgaaagttg cgatgaacca atgtacaaaa aattagtaca    240

agctctgtgc aatgagcatc agattcccct tgttaaagtt gatagcaaca aaaaactagg    300

agaatgggca ggtctttgca aaattgacaa agatggtaaa gccagaaaga ttgttggatg    360

ctcatgcgtt gtcatcagag atttcgggga agagactcca gctttggatg ttttgaagga    420

ctatttgaaa caatcgagtt aaactatctt gctattttta attatgaaat aaaaatacaa    480

aaacctaaaa aaaaaaaaaa aaaaaaaaaa aaaa                                514
```

```
<210>  268
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  268
aattcggcac cagggtcggc tttagtcgta acaaattgaa tatcaaaaaa taatgataaa     60

tttatcattc agtcttattc taaaatcgta gacgtgatgt tgttttggtt agttttaatt    120

tttgtgttgt gttttttatgc ctattttagg ctaaatcgag tgcgacgatt tgctgataag    180

ataccaggag aacaaccatg gcctatagca ggaaacgcct tagatattgg gacggatcat    240

acgaaattat tacaaaaact tatgcaatat ttggataagt ataaattttc tcgatttggt    300

atttggcttg ggatggacta ttttgtgttt ttagtagaac ctgatgatgt tgagattatt    360

ctaagcaaca ccacaaatat aaccaaatca aaagaatatg attttctgca caaatggctt    420

ggagctggtt attaacatcc acaggcgata aatggcgaca tagcccgaaa aatcattacc    480

ccacattcca cttttaaaatt ttagaggaat atgcagaggt gatgaccgtg agtgtacttg    540

gttaaaaat                                                           549
```

<210> 269
<211> 477
<212> DNA
<213> Ctenocephalides felis

<400> 269
cttcttcctc tgattggtaa caaaacaatt tcttattggg acagttttgc aatcacaaaa   60

ttagtgtttc agaaaaatga gagctaagtg gcgtaaaaag aggatgcgca ggcttaaacg   120

taaacgcagg aagatgcgtg ctcgttccaa gtaaataaac gattgcaatc atttaacact   180

tgtgtatatt tttgcagttt attgtgaagc tcattatcat aatggccaaa atgaaatatt   240

ttcgatattc aatcgacatt cattatattt aagtaacaat agtatatgta tagcctgttt   300

ctaaattatt atgcaagcat aaactaaaaa ttatttatta aacaaatgtt atttaatata   360

ttattgaatt attatatata ttgaattgaa ttgttataaa cccgtattaa tgaattatta   420

taaacccgta ttatacagaa atatatattt attaattgca aaaaaaaaaa aaaaaaa   477

<210> 270
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (456)..(456)
<223> n = unknown at position 456

<220>
<221> misc_feature
<222> (495)..(495)
<223> n = unknown at position 495

<400> 270
agagtattct gtatctatta ccatagtgtt ttgtttgttt aaatagtttt taaagataac   60

aaaatgaact taattatact tttcggcctg tgttttgtta cgttttgtac gggacatgag   120

gaaagccctt acacattcca atatacgaaa gagaactttc aagagggagt tggaaaaaat   180

aaccatttca tcatgtttta tgcaccctgg tgcggttact gccaaaaatt ggcgcccaca   240

tggaaccagt tagccgaaat gttaaattca gatgagcatt caagagtcac cattgccaaa   300

gttgattgta cgactgacaa tgaagtttgt tctcaacatg atgttacagg ctaccctact   360

ctgttatttt tcaaattgga caccgaagaa cctgtgaagt tcaaaggaac tcgagatttg   420

ccaactctca cagcttttat taatgaacaa attggngcaa tgaacctttg gatgttgaat   480

cgattccaca tattntgatg ctgcaatggc tagttgaacc gcagaagata ggttggagat   540

atgtcagag   549

<210> 271
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (443)..(443)
<223> n = unknown at position 443

<220>
<221> misc_feature
<222> (543)..(543)
<223> n = unknown at position 543

<400> 271
gttagcccaa ggtttaatag atcgtggcca ttttgataaa gagaatataa aaattagaca   60

agctgatatt gaaaaacaat ttgacaattt gaaaaacttg agtttacaaa gggaaaaacg   120

gcttgctgag agcaagaaat tcttccactt tattcaaatg gtagaagagg ttcaggagtg   180

gataaatgat cagatatcaa ttgcagattc tgaagattat ggaactgatg ttgaacatgt   240

ggaattgctc ataaagactt ttgatacttt tgtagcagga ttaatagcta gtgaaagcag   300

aattataaat tgtacagaca caggaaagaa attgattaaa gaaggaaatc catgcgctga   360

tactattcga gataaaattg atgaaacaaa acaattatgg gatgacttaa aagaattagc   420

tcatgttcgg caagaggcat gntggtgct aaacttgtca tgtgtttgcc gcaatgctga   480

tgaactattt cctgatagct gaaaagaatc gacataccac tgccatactt caagattaga   540

agnatccat   549

<210> 272
<211> 515
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (28)..(28)
<223> n = unknown at position 28

<220>
<221> misc_feature
<222> (145)..(145)
<223> n = unknown at position 145

<220>

```
<221>  misc_feature
<222>  (178)..(178)
<223>  n = unknown at position 178

<400>  272
ttgcccttag tctaaaatgg ggcgtgtnat cagagctcaa agaaaaggtg cgggctccgt      60

cttcgtggcc catacaaaga aaaggaaagg ggcacctaaa cttcgttcac tcgatttcgc     120

tgagagacac ggttatatta aaggngttgt caaggatatt atccatgacc ctggtcgngg     180

agctccctta gctatggttc acttccgtga tccatacaag ttcaagacca gaaaagaatt     240

gttcattgca cctgagggta tgtacacagg acagtttgtg tactgcggta aaaaagctaa     300

tctacaaata ggaaatgtaa tgccagttgg tgctatgcca gaaggaacca ttgtatgcaa     360

cttagaggag aaaactggcg accgaggtcg gctacccgtg cttctggaaa ctacgctctg     420

ttattgctac aacccggcac taaaaagact cgtgtcaagc ttcattggag ctaaaaaggt     480

atgcctttac atcgtgctat ggtggattgg gctgg                               515


<210>  273
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (488)..(488)
<223>  n = unknown at position 488

<400>  273
aagcattctc atactttgca acagctcaac aatggaaaaa aaattcctcc aagcaattgg      60

aaatgtgaga aatgtgatct cacctcgaat ttatggctta atttatcaga tggatccatt     120

ttatgtggca gaaaattttt tgatggcaca ggaggaaatg atcatgctgt tgaacactac     180

aaagcctatg gttatcctct ggctgttaaa ttgggtacaa taactaaaga aggtaaaggt     240

gatgttttca gctacgatga agatgatatg gtagaggatg ttaacttaaa gcagcatcta     300

gcacattttg gaatcaatat aactgattta gaaaagactg aaaaatctat ggtagaattg     360

gagcttgatt taaaccagcg agtaggggag tggggtgctc ttactgaaag ctcaaatgcc     420

ttgaaacctg ttatggcctg ttatactgg ctgagaaatt tgggaaattc atgttatttg     480

aacagtgnat gcagtttgtc actatccaga cttattctta gattgcatga tcacctagat     540

atcacacat                                                             549


<210>  274
<211>  406
```

```
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (55)..(55)
<223>  n = unknown at position 55

<220>
<221>  misc_feature
<222>  (349)..(350)
<223>  n = unknown at positions 349 and 350

<220>
<221>  misc_feature
<222>  (352)..(352)
<223>  n = unknown at position 352

<220>
<221>  misc_feature
<222>  (400)..(402)
<223>  n = unknown at positions 400, 401 and 402

<400>  274
cgttagctaa agatttattg catccgacga ttgcggagga gaagagacgt cacangctaa      60

agcgtcttgt gcagcatcca aattcttatt ttatggatgt caaatgtccg ggttgttata     120

aaattacaac agtttttagc catgcacaaa gtgtagttgt atgtgctgga tgttcaacaa     180

tattatgcca accaacagga ggtcgtgctc gtctgactga aggatgttcg ttcaggagga     240

aacaacatta atttaagtta tttcctactt tgtttataag atgtaaaagt taaattgcct     300

tgtagatttt tttaaaactc taataaaggc aaatttgaaa aaaaaaaann gnaaaaaaaa     360

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan nnaaaaa                   406


<210>  275
<211>  399
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (353)..(353)
<223>  n = unknown at position 353

<220>
<221>  misc_feature
<222>  (365)..(365)
<223>  n = unknown at position 365

<400>  275
attacgcaga accttctgca aaaaatgcaa ggttcacaag caacacaaag taacacaata      60
```

```
taaaaaatca aaagaacgac atgcagccca gggacgtcgt cgttacgaca gaaaacaaca    120

aggttttggt ggtcagacca aacctatctt cagaaaaaag gctaaaacta ctaagaaaat    180

tgtattgaga atggaatgct ccgactgtaa attcaggaaa caaatcccac ttaagcgttg    240

caagcacttc gagcttggtg gtgacaagaa gaggaaggga cagatgattc agttctaaat    300

gtgtattttt tttacatacg actgtattaa gtttaataaa gcagtttaat gtnaaaaaaa    360

aaaantaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa                           399
```

```
<210>   276
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (417)..(417)
<223>   n = unknown at position 417

<220>
<221>   misc_feature
<222>   (516)..(516)
<223>   n = unknown at position 516

<400>   276
gcttcagctc atttagtcgg aggagcaaag aaggtcatca tttcagctcc tagtgcagat    60

gcaccaatgt ttgtttgtgg tgttaactta gaagcttatg acccgtccat gaaagttgta    120

tctaatgctt cttgcactac caattgttta gctcctttgg ctaaagttat tcatgataac    180

tttgaaatcg ttgaaggtct tatgactaca gtccatgcta ccacagccac ccaaaagact    240

gtggatgggc ctagcggtaa gttatggcga gatgggcgtg gagctgcaca aaatattata    300

cctgccgcaa ctggcgctgc taaggctgta ggcaaagtca ttccggcttt gaatggtaag    360

cttactggta tggcgtttag agtccaatag caaacgtttc tgtggtgatc ttactgnaag    420

attgggtaaa aatgcactta tgaagatatc aagaacaaag taaggagcat ctgaaggctc    480

ttgcatggaa tttggattat acagaagatg atgtgngtct gtgattcatt ggtgatccct    540

ctcgatctt                                                            549
```

```
<210>   277
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   277
agttgccgcc ctcgtagtcg ataatggatc tggtatgtgc aaagccggtt tcgctgggga    60
```

```
tgatgctcca cgagctgtat tcccatcaat tgttgggcgc ccccgtcatc aaggtgtgat    120

ggtcggcatg ggacaaaaag acagttatgt aggtgatgaa gcacaaagca aaagaggtat    180

cctcacattg aaatacccaa ttgaacacgg tattgtcaca aactgggatg atatggaaaa    240

aatctggcat cacaccttct acaatgaact ccgagttgcc ccagaagaac accctgttct    300

cctcacagaa gccccattga atcctaaagc aaacagggaa aagatgaccc aaattatgtt    360

tgaaaccttc aacactcctg catgtacgtt gcatccaggc tgtctgtcat tgtcgcttct    420

ggtcgtacca ctggtattgc ttggatttgg tgatggtgtt ctcacactga ccaatctatg    480

aaggatcgcc ctcctacctt cttgcgtttg acttgctgc cgtgacttac tgatattaat     540

gaaatctaa                                                            549
```

```
<210>   278
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   278
aatgaggttt gtacgataac tattgtggct tttagttcaa ttttacagta gtataaaaaa     60

tgtctagtgt gtatgagaat aaaaatggtt ttaaagatgg atgtatcgac ttcacggcag    120

gatccttggg aggtgtggca ttggtgctag tcggtcaacc tttggatacc gtaaaagtga    180

aaatgcaagc tttcccaagt ctttatagtg gcatgacaaa ttgtataaaa aagacagtta    240

aaagagatgg atttattaaa ggattatatg caggaacaac tccagcttta atagctaatg    300

ttgctgaaaa ttctgtatta ttcgctggct acggagcttg ccaaaaattc attgcctact    360

tgactggcga aaaagatgta tctaaattaa gtactttag taatgcatct gtggtgctcg     420

ctgcattttt ttcatcattc acattatgtc caactgaatt ggtaaatgcc actccaagcc    480

ttggaggaag ctcaaattca gaaggttcgc tggcaaatga ttgaagaatg ggccgataaa    540

taaccaacg                                                            549
```

```
<210>   279
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   279
agcggcttcc accttctttc gctattgtgt ccgcaaagaa tatgaaaata atatattaca     60

catagtgcat gtagttttc taatacatga tacacttata aaataaataa taacaaacat     120

ttgaagttga tacaaaagta catcaggtta aaatgccgga aggtgtagaa aatttagttc    180

taggagaatt atatacatcg gagaagaatg gtagtgatga aacaggagat ggaactgcag    240
```

```
atcgcccttt caaaacaatt cttcaagcca tgaaacatgc tggtaaggag ccatttccaa    300

cgatatatgt tgatgcaaag gaaccagaga gtggtgagaa atatgaactc gctgccaaat    360

ctcaattgaa gaaaatacaa aaaatatggg tgagagatac atataaaaat gcagataaat    420

taaagaaaga ggaagaggat gcaaagaaac gagaacagaa tctgtggaag ctaaaagatt    480

caaatcaaga agacaaaatt accaccgtaa gtataaaatt aacaggtgat tcatcgaatt    540

gccggttaa                                                           549
```

```
<210>   280
<211>   528
<212>   DNA
<213>   Ctenocephalides felis

<400>   280
cacgtgtgat ttatttcttc tgatttagtt ttgtgttgca ataaacatta taatttaacc     60

tcaaaacttc aaaatgtcta tccgacctgt gtatcgcccg aagattgtca agaagcgaac    120

gaaaaagttc attcgccatc aatctgaccg atatgataaa cttaagagga actggcgtaa    180

accaaaaggt attgacaaca gagtacgtcg tcgtttcaag ggccaatttt tgatgcccaa    240

cattggttat ggatccaaca gcaagacccg tcatatgttg cctactggat tccacaaggt    300

tttggtacat aataccaagg aacttgaaat cctaatgatg cagaatagga catactgcgc    360

tgaaattgca catggtgttt cttcgaagaa acgtaaagag atcacagaga gagccaaaca    420

attgtcatca gagtcacaaa tggcaatgca gactccgctc acaagaaaat gaataaatga    480

ttgataactt catataataa acgctaaaag taaaaaaaaa aaaaaaaa             528
```

```
<210>   281
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (489)..(489)
<223>   n = unknown at position 489

<220>
<221>   misc_feature
<222>   (547)..(547)
<223>   n = unknown at position 547

<400>   281
atttagatca aattttcagt ggtattacag aaaatccata aaagcattta gataacaaac     60

aattatccaa cgttacctga ttgcaaatct taaactgcat taagtgataa aacacaaagc    120
```

```
attctgaaat aaattttgtt ctggggatac acatgcattc acataagttc aatggcttga    180

agttacaata aagaaggctc caagggctgc caaaataatt acgtgtctcg atctagcctg    240

aatcttcgtc cgctcgccta atcatgccca aggtcgtaaa agctgaaggg gaggatcccg    300

atccaacccc atacttgttc gtatctctcg aacaaaagcg tatcgatcaa accaaaccct    360

acgatgcgaa gaaggcctgc tgggtacccg acgagaagga aggcttcgtt ctcggtgaaa    420

ttaaggccac caaggggggat ctcgtcaccg tcggcttgcc ggtggagaga ccaaagattt    480

caagaaggnc tcgtcgccaa gtgaccccccc aattgaaaaa tgcgaggatt gtcaaatttg    540

ctacctnac                                                             549
```

```
<210>   282
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (504)..(504)
<223>   n = unknown at position 504

<400>   282
gaaagctcaa gcgaaagaag aaaaaattgc taagcagctt gaaagagaga agctacagct    60

agccttagct gctcgtgata gagctgagaa gaaacaacaa gagtatgaag acaagcttaa    120

atctatgcaa gaagaaatgg aacgatcaca ggctaattta atagaggcac aagatatgat    180

cagacgttta gaggagcaac tgaaacaatt gcaagcatct aaagaagaat tagagcaaag    240

gcagaatgaa ttgcaggcaa tgatgacccg ccttgaggaa acaaagaaca tggaagccgc    300

agagcgtgca aaattagaag aagaaattcg tgcaaaacaa gatgaagtgc aacgcattca    360

agaagaagtt gaagctaaag atacagagac taggagatta cagaatgaag ttgatgaagc    420

caggcgtaaa aaagatgaag tagccgctgc ttgttggctg cacatcaact cctcacatcc    480

catgtgatgg aagaaatgac accnagagtg tgagttccaa acggagtgga gatatagctg    540

cttaatctg                                                             549
```

```
<210>   283
<211>   550
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
```

<222> (496)..(496)
<223> n = unknown at position 496

<400> 283
aagccgcatt tgttattgag aaatatatgc taaaatatat tgtctcagaa ttaatataat   60

gtgctgagtt tgcattaata ttgaaacgtt ttattcattc tgaggcatct atataaaata   120

aataaatatg aaagcaattt tgataacatt gatagtcgcc gcggctgtgt attccgtaag   180

gcctgaggtt ttcctggaag aaaacttcgt agacgatacg tggacaaata catgggttta   240

tagtgaacac cctggcaaag aattcggcaa attcgtgcac actgccggaa agttctataa   300

cgatgccgaa gcagacaaag gtttgcaaac aagtcaagat gctaggttct acgctctatc   360

tcataagttc aaacctttct caaataaaga caagacatta gttgtcaatt ttctgttaaa   420

catgaacaaa acattgactg tggaggtggt acttgaaggt gtcgattgaa gttgaatcaa   480

aaggacatgc atggtnaagt cctatgaaat atgtttggcc tgcatttggg ccaggaacta   540

aaaggtccgt   550

<210> 284
<211> 328
<212> DNA
<213> Ctenocephalides felis

<400> 284
catccgttca ccaattggtg taggatccgt agctaaagtg ttcggaggac gtaaacgtaa   60

tggtgtatct ccttcacatt tccacaaatc atcaggaggt attgcacgca aagcattgca   120

agctttggaa tctttgaaat tggttgagaa acacccagat ggtggccgca agcttaccgt   180

tcagggaaga cgtgatttag atcgtatcgc tgcccaagtt agggctaaac aaagggcaag   240

aaaagatacc actggtccta ttgttttgta aaacatgttt atatataaat aaaaaaataa   300

gatctaaaaa aaaaaaaaaa aaaaaaa   328

<210> 285
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (535)..(535)
<223> n = unknown at position 535

<400> 285
cagcgatttc cttttttattc cggctaagtg agaaaacaca aacacaacca aaatggacgc   60

gatcaagaag aaaatgcaag cgatgaagct ggaaaaggag aacgcaatgg accgcgctct   120

```
caactgcgaa caggaagcta aggatgccaa cctgcgcgct gagaaggccg aggaagaggc      180

ccgttctctg caaagaaga tccaatcaat tgagaacgat cttgaccaaa ctcaagagtc      240

attgatgcaa gtcaatggaa aactcgaaga gaaagacaag gctctccaaa atgccgaatc      300

tgaagtcgct gccttgaacc gacgcattca actcttggaa gaagatttgg aacgttcaga      360

agaacgtctt gccaccgcac tgctaaattg gctgaagcct cacaggctgc tgatgaatca      420

gaacgccccg taaggtgctt gagaaccgtt ccctcgcgag aagagcgca tggaccactt      480

gagaccaact taaagaagcg cgttctggct gaggaggccg ccaagaaata cgatnggttg      540

ccgtaaattg                                                            550
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<210>   286
<211>   457
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<222>   (446)..(446)
<223>   n = unknown at position 446

<400>   286
gcaaacaaca aggtccgctg atgcaagatc cacacgattg tcacgcatat tacacatgtc      60

tagaaattgg atcattaccg aaacatttta attgtaataa aggtgcttat ttcaatacag      120

tcaaattaaa atgcgtgaaa ggaaattgcg aaaatagcac agaaattcct cttcctgagc      180

ttccagacat ttgcgatgaa gtaggacctt tggtgcaaga tccaaacgat tgccgcaagt      240

attattcatg cgtcacgatt ggaaaagaac ctgaacattt tacgtgcaat aaaggggcgt      300

attttgatcg agaaagatta cggtgtgtca gaggatcttg ttaacaaata ttgttatata      360

acaaagttca atctttaatt attatttaga agaatttgaa aatgtatatt taatgttttt      420

taataaaata gtttattggc aatttnaaaa aaaaaaa                              457
```

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<210>   287
<211>   256
<212>   DNA
<213>   Ctenocephalides felis

<400>   287
attgtaccac caacaataaa tttagaaaat ctaactgaag atatggactt aaattatgtg      60

cctaataaat cttgtgattg gaagagttgt gataagagaa tagctttgaa aaatgctttt      120

ggttttggag gtacaaatgc atcattatgt ataggcgaat atagagagat ataatcacat      180
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aatgcttata tgctgatttt aaaaagagat aatataatag ttttctaata ctaataaata   240

aaatatattt taatat   256

<210> 288
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (530)..(530)
<223> n = unknown at position 530

<400> 288
cgacaacctg acgcccttga aagacaacga aggcattcta gtgccattgg tgcaatcgtg   60

cgatgacgac catcctgcta ttttccattc gatggcacct tttccattgt tacgtaaagt   120

tcttgtacgg ttattgcatt ctgttgactt gatactggag aaggctaacg aaatttaccc   180

taaccagtat cttcagaagg ccaaatatta ttggggtaac tttgaaatgt tgacgtcagt   240

aatttccccca aaacgtttga cgattttgca cgtcgattac aacggcaaaa ttttgggatc   300

gatgcattcg atgacaggag acgtcaaagg catttcgcat gccttacctc attccgatgg   360

atatctgtat ttggggtcac catttaataa ctatttggca cgagtaccta tgcccaaatc   420

ttcgaagatc agagtgtcta aggtcactta tgagggcgag ggattgatgt tgctggggaa   480

aaggtaaagg agactcctaa ggaaagaagt acctaaggaa agaggtgccn aggaaaggaa   540

gccctaggtg   550

<210> 289
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (512)..(512)
<223> n = unknown at position 512

<220>
<221> misc_feature
<222> (539)..(539)
<223> n = unknown at position 539

<220>
<221> misc_feature
<222> (546)..(546)
<223> n = unknown at position 546

<400> 289
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aatcgaccca gttcttatat ttgttaaacc gtttgttaaa attcgcaaaa ataaaaattt      60

gcaaaaaatg cctttaaaaa tcaaaaaagt gttagttagc gacgctgtcg atgcagcatg     120

tgtggaatta ctaaagcaac atggcgtcga agtgaaatgt cgaacaggaa tgacgcctgc     180

ggagcttctg caggagatcc ctgctcatga cggattgatt gttcgctccg atacgaaagt     240

aacacgcgaa gtaatagctg cagctactaa tctcaaggtg gtcggcagag ccggagccgg     300

cgtggataac atcgatatac ctgcagcaag cgaacgaaat atcatcgtgc ttaatacacc     360

agggggtaat tcaatcagcg cctgcgaact aacgtgtacg ttgatggggt gtctcgcacg     420

tcatgtagtg cccgccggtg cgtctatggt agctggacgt gggatagaaa aatctattca     480

ggaaatgaat tgatggtaaa cctgccgttt angtttggga ggatggattg aagttgcang     540

cgtatnaagt                                                            550
```

<210>   290
<211>   550
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (30)..(30)
<223>   n = unknown at position 30

<220>
<221>   misc_feature
<222>   (36)..(36)
<223>   n = unknown at position 36

<400>   290
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attaattgga gacgaccaaa tttttaatgn aattgnaaca gctcatgcat ttattataat      60

tttttcata gttatgccaa ttttaattgg gggtttggga aattgattaa tcccattaat     120

attaggagct ccagatatag cctttccacg aataaataat ataagatttt gactttacc     180

tccttcatta atttttattac tttcaagagc tatggtagaa agaggagctg gaacaggatg     240

aacagtttat cctccccttt cttcagtaat cgctcacagt ggatctagag tagatttaac     300

tattttaga cttcatatag caggtatttc ttcaatctta ggagccatta attttatttc     360

tacttgttta aatatacgac ctaaaggaat atctttagac cgaataccac ttttttgtatg     420

atcagttttt attactgctt tcttattact tttatctttta ccagtattag cagggggctat     480

tcaatattat taacagatcg aaatttaata catcattctt tgcccttctg gtggaggaga     540

cccaatttat                                                            550
```

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<210>  291
<211>  362
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (95)..(95)
<223>  n = unknown at position 95

<220>
<221>  misc_feature
<222>  (179)..(179)
<223>  n = unknown at position 179

<220>
<221>  misc_feature
<222>  (292)..(292)
<223>  n = unknown at position 292

<400>  291
acaagctaaa gatgccaact tgagagcaga aaaggtaaac gaggaggttc gtgaactgat      60

caagaaactc ggacaagtcg aagccgattt ggccntgaac aagaacaact tggagcaagc     120

caataaggat ctcgaagaga aagaaaagac cttgaccgcc accgagtctg aagtggctnc     180

actcaacagg aaggtgcaac aaattgaaga agatttggaa aaatctgaag aacgtgccgg     240

aagcgctccc caaattgttg gagccacaca agctgccgat gaaaccaccg tntgtccaag     300

tattggagaa ccgctccaac aagatgaaga gcgatggccc attgaccacc aattgaagga     360

gc                                                                    362


<210>  292
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  292
attaattcct atgatggccg gtacattaac taaactcagt ggaaatatta aatacgtgaa      60

aaaacagaat aataatattt ttagacaatt tttgacaaca aagaattatg ccacaagggt     120

ccaagcagct aagccagtgg tcgaaatgga tggtgacgag atgactagga tcatctgggc     180

taaaattaaa gagcaactca tttttccata tgttaaggta gaatgtttgt attatgattt     240

gggtttgcca catagagatg ccaccgatga taaagtaact gtggatgccg ctcaagcaat     300

tttaaaacac aatgtcggca taaaatgtgc gacaattacc cctgatgagg caagagtagc     360

tgaatttaaa ttaaagaaga tgtggctcag tccaaatgga accattcgta atatactggg     420

cggaacagtg ttccgtgaac ccattctttg taaaatatac ctcgtcttga cctggatggc     480
```
                                    Page 160

```
taaacctatt ataatagccg cacgcgcatg gtgatcaata taaagctaag atttgagtaa      540

atgacctgg                                                              549
```

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<210>    293
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    293
tataaattgt atatatgagc aatgaatcaa ttttttaaa cattttgatt ttcctgggcc       60

ctgtagcaaa cttgatattt gacaactgaa ccatcaaagc tatatataaa tattaatcga      120

atttctataa atcttaaata catattttga attaaagata gtaaattaac aatggcagcg      180

ggggctgagc ctttgtcact agctaaagat gtcaaaagag cctgcgagct ccttgataaa      240

ttacaaatga ctggagaaat accagccaca aaaatagctg ccttacaaaa agttttacaa      300

tccgattttt ttactgccgt tcgcgaagtt tatgaacata tttatgaaac agtagatatt      360

caaggttctg aagacataag agcatcagca acagcaaagg ctactgttgc agcttttgca      420

gccagtgagg ccatgccatc cacgagttgt tgaattccta agacagatga aggcttaggg      480

tttaatgtat gggtggaaaa gaacaaaatt ctccatatca tatcaagaat atccagtggt      540

gagctgtcg                                                              549
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<210>    294
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
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<223>    n = unknown at position 474

<220>
<221>    misc_feature
<222>    (485)..(485)
<223>    n = unknown at position 485

<220>
<221>    misc_feature
<222>    (515)..(515)
<223>    n = unknown at position 515

<220>
<221>    misc_feature
<222>    (517)..(517)
<223>    n = unknown at position 517
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<220>
<221> misc_feature
<222> (532)..(532)
<223> n = unknown at position 532

<400> 294
gcttatgttt gtttttattt tgacgttgct aaaattttag ctttaatgtt tgttttcttg   60

tgataaatta gttttatttt aaaggctagc gcataataat aatgatgcat ctgagcgctg   120

acatatctag tgcacttcag caacttgaga gcatcaagac agcaatagat gactcccatg   180

atccaaaact tcagctcagt actaatgaag atttggatat gataataagc ctattgcaag   240

atccagtttt tcgaagcatt gttactactc aagattcact aggtgaattg aattcccaaa   300

taacacaaca tccatcaata ttaccaggag attttgatat aactacttca ggtgatctaa   360

ttctgcggtg ccccccttctc ttgatttata tgataatgag tacactgatg aacaaagagt   420

accctctgac aattaagtcc aggtagccct cagaggttag gtatagcatc ggtnggggca   480

gtcangggaa cattacattc atgaagggat caatntngca atgaggcaac cntgatggat   540

attcccaca   549

<210> 295
<211> 512
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (30)..(30)
<223> n = unknown at position 30

<400> 295
atcagactga acgagccttc cagaagcagn tgggtgtaaa cctcaaccgc aagatcggtt   60

taaaaaagaa atccttacgt cttcacagga atgtaggatt aggattcaaa acaccccgtg   120

aggctattga aggttcttac atcgacaaaa aatgcccatt cacaggaaat gtatctatca   180

gagggcgtat tttgacaggt gttgtacaaa aaatgaaaat gcagcgcact attgtcattc   240

gacgggatta tctgcattat attaggaagt acaacagatt tgaaaagaga catcgcaata   300

tgtctgtgca cctttcacca tgcttcaggg atgttgaaat tggtgatgtt gtgaccattg   360

gtgaatgcag acccctttca aagaccgttc gtttcaatgt tctcaaagtg acaaaaggaa   420

caggttctaa aaagagcttc aagaaatttt agtaatcttt attacaataa acatttgttc   480

ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aa   512

<210> 296

<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (514)..(514)
<223>   n = unknown at position 514

<400>   296
ggctcttggt cgaagaggct gttaacgatg ataacagtgt ggtggctttg tctcaagcta   60

aaatggacga actgcagcta ttcagaggcg atacagtatt attaaaaggc aaacgcagga   120

aggagacagt ttgcatcgtt ctctctgatg atacttgccc cgatgaaaaa atccgtatga   180

acagagttgt acgtaacaac ttgcgtgtcc gcttgtctga tgttgtttct gtgcagcctt   240

gtccagacgt gaagtatgga aagcgaattc atgtgctgcc cattgatgat tctgttgaag   300

gcctaacagg aaatctgttc gaggtctacc tcaagcccta cttcttagaa gcctatcggc   360

caattcacaa ggacgacaca tttattgtcc gtggcggtat gagagcaata gaattcaaag   420

tagtcgaaac agatctgctt cttattgatc gtggtcctgc acagtcattc attgcgaagg   480

ggatccaatc aagcgtgagg aagagaagag ctcnatgctg cggtatgatg atattgtggt   540

gagaaacat   549

<210>   297
<211>   296
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (102)..(102)
<223>   n = unknown at position 102

<220>
<221>   misc_feature
<222>   (121)..(121)
<223>   n = unknown at position 121

<400>   297
cctaataaat taggaggagt tattgcctta ctattatcaa ttttaattat tattattttta   60

cctattaata ataaaatatt tttaagaaat tcattttatt tnttaaataa aattttattt   120

ngattttttca tttatatttt aattttacta acatgaattg gagctcgcca gttgaagacc   180

ttatattatt caggacaaat tcttacaatt ctacttttt cttattattt aattaatcca   240

tatatttatt ataaatgaga taatttatta ttataaaaaa aaaaaaaaaa aaaaaa   296

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<210> 298
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220> .
<221> misc_feature
<222> (505)..(505)
<223> n = unknown at position 505

<220>
<221> misc_feature
<222> (535)..(535)
<223> n = unknown at position 535

<400> 298
ggaacattta ttcgtgaagc tagcactagt catgcattgt ttggtaaaca tattctcact   60

gtagacatgt tcaacaaaga acaattaaat gatattttca atttggctga aaatatcaaa   120

gctcgcgttg tcaaagatcg accagtagat gaaattttgc gcggtaaggt aatggcttct   180

atcttttatg aagtgagtac tcgtaccagc tgcagctttg ctgctgcaat gcagaggctc   240

ggaggccgag tgatccatat agatgaaact agctcatctg ctaagaaagg cgaaactcta   300

gaagattctg tttctgtcat ggctggttac tcggatgtaa ttgtacttcg ccatccagaa   360

ccaggagcag tagctaaagt ggctgcgcac tgtagaaagc cattaataaa tgctggcgat   420

ggagttggcg aacatccaac tcagcgtgct tgatatattt actattcgtg aagaaatggt   480

ccgttatggt tgactatact atggncggac ttgaaaatgc gtctgacctc attgntcgtt   540

ggtgcgtat   549

<210> 299
<211> 549
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (540)..(540)
<223> n = unknown at position 540

<400> 299
cttcaaacct ttaatgtttt gaaacacaaa ctgttcataa tcaattgtag ttttgtgata   60

aaactcaata tgatcgtata aacctgtgta cctagaaaaa acagaggagc agggaggggag   120

tggacatttt attctggatt tccttgatgg tgtacctata aaattttcct tagtactgat   180

tggggaactg ggaatgggag gcgtgtgaat ttgaacttta gtagaggaag tacaaggatg   240

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tggcgataaa cttacgtggg aatgtttgtg aagacgatct gatatggaag gagcagaggt    300

aaaagatgag caagcagaaa gtggatatct tagtttctct tttgttgatg gtgtacctgt    360

aaaattttcc ttagtactga ttggggaact gggaatggga ggcgtgtgaa tttgaacttt    420

agtagaggaa gtcaaggatg tggcgataaa cttacgtggg aatgttgtga agacgatctg    480

tatggaagga gcagagtaaa agatagcagc agaagtggat atctagttct ctttgtgtgn    540

gtcctgtaa                                                           549
```

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<210>   300
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (537)..(537)
<223>   n = unknown at position 537

<400>   300
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cttaagtgtt cagaatgcca caatcaatgc atgtaaatgg ctatgccaac ggccacagcg    60

gttccttcga tatggaggat ggatctgttt tcttgtttac ttcggaatct gttggcgaag    120

gacatccaga taaaatgtgt gatcagatca gtgatgctgt attagatgct cacttgaagc    180

aagatccaaa tgctaaagtt gcttgtgaaa ctgttactaa aactggaatg gttctcctct    240

gtggagaaat aacttccaat gctgtagttg attatcaaaa agtggttcgt gacacggtga    300

aacacattgg ttatgatgat tcatctaaag ggtttgactg gcgtacccTt aatcttctgg    360

ttgcattgga acagcagagt ccagacattg cgggtggtgt acacatgaat aggcaagaac    420

atgacatagg tgctggggat caggtttcga ctataggacc tgcaatgtct acttgcattg    480

atctcagcac ctatatagca gctggagtca tgacatcgaa ggatgaaaaa tgggcangaa    540

acagggtta                                                           549
```

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<210>   301
<211>   475
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (87)..(87)
<223>   n = unknown at position 87

<220>
<221>   misc_feature
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<222>  (95)..(95)
<223>  n = unknown at position 95

<220>
<221>  misc_feature
<222>  (132)..(132)
<223>  n = unknown at position 132

<220>
<221>  misc_feature
<222>  (181)..(181)
<223>  n = unknown at position 181

<400>  301
gttttggcaa tgtcgcaccg taagttttcc gggccgagac atggctccat ggggttctac      60

cccaagaaga ggtcccagcg tcaccgnggt aaagnaaagg ctttccctaa agatgaccct     120

agcaaaccag tncatttaac tgcctttatt ggttacaaag ctggtatgac ccacgtgctt     180

ngtgaggcag acagacctgg atcaaagatc aacaagaaag aaattgttga agccgtaact     240

attttggaaa caccacccat ggtcgtggtt ggagctgtcg gttatattga aactccacat     300

ggtctacggg cattggttac tgtttgggct gaacatttgt cagaggaatg ccgccgtaga     360

ttttacaaaa actggtataa gagcaagaag aaggctttct ctaagtcctc aagaaatggc     420

aagatgagct tggtcgcaaa tcaattgaaa gggattgaag aaaatggcaa atctg         475


<210>  302
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  302
gtgtattcat attaaaaact gctgaatcca cgtgtgtata atgtcagacg cagtggtggc      60

aggaagtggc ggacaaccta attctggaca aatcaagaaa gaattatcgg aaggcattat     120

ataccagacc gcagaaagtc caggatcaac atgctgcaca gcgctgtatt ccgatgtaga     180

agtgataaag atggaaattt cggatcattt tgaagttgtt gacccgaaat ctctacagat     240

agcaaatagt ccgggtagtc cagatagaca attctgcagc tcaaccacgg cgtcaattgg     300

ggaaattacg acaaacgatg atattaaaga agacagtcca aggcgtcttt gccttgtttg     360

tggtgatata gcctctggat tccattacgg cgttgcctca tgtgaggcat gcaaagcatt     420

ttttaagaga acaatacagg gtaacataga gtataattgt ccggcagttg gagattgtga     480

aatcaataaa cgaaggcaaa agcatgtcaa gcctgtcgat tcaaaaatgt tagcattgga     540

tgtaaaaga                                                           549


<210>  303
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<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (541)..(541)
<223>  n = unknown at position 541

<400>  303
gccgtcaaaa atggctggag tattattttcg tgttaatttg gctaaaacac aattgggcat       60

aatcagccca gtttttacaa ttagacataa cagcggtgga ccaccaccac caggcactcc      120

acctccacaa acacgtacta aatttggtcc tcttaaagat gaagacagaa tttttacaaa      180

tctttatgga cgtcacgatt ggagattgaa aggatctttg aaaagaggag attggtataa      240

aactaaagaa atcattctta agggagctga ttggatcata aatgaaatta aaacttctgg      300

actcagaggt cgtggaggtg ctggttttcc ttcaggtttg aaatggtctt tcatgaacaa      360

accaggagat ggaaggccaa aataccttgt ggttaatgct gatgaaggag agccaggaac      420

atgtaaagat cgtgaaataa tgcgacatga ccctcataaa ttggtggagg ctgttaattg      480

caggaagagc atggcgctcg actgctcatt acatagagga gaatttatat gaacatcaat      540

ntcagttgc                                                            549


<210>  304
<211>  406
<212>  DNA
<213>  Ctenocephalides felis

<400>  304
gttaattttaa aataacaaaa tgaaaggaac attattaata ttatcatgtc ttgtgatcat       60

gataagtgcc gaatatgctg acgtagatgt gtgccaagat ttggacgatg gaacttttct      120

tgctgattca aacaattgcc aaaatttctt catttgtgat ggaggccgag cttggaaaat      180

gtattgtcca ggatcacttt tatggaatga tcacgaagga acatgtgatt acgcacaaaa      240

tgtagaatgt taccaaccag aataaaacat tttaatatct gacagcgatt ttctgaaact      300

atatttcata ctactgttat aataaattta tcttcattgc tctcctccta taaatttatt      360

ccgtttttaat aaaatcaata taaagacaaa aaaaaaaaaa aaaaaa                   406


<210>  305
<211>  549
<212>  DNA
<213>  Ctenocephalides felis
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<220>
<221>  misc_feature
<222>  (524)..(524)
<223>  n = unknown at position 524

<220>
<221>  misc_feature
<222>  (539)..(539)
<223>  n = unknown at position 539

<400>  305
ctgataccat cgaagccagt gctgattcat gacttgggtc gtgtttatat acaaactggt      60

cctgatgtta agaggtgcat tcttagatta ttagagggac cagttagaca actcggcatg     120

gaaaatactg aattgatgaa attagttgag gcctgtgcaa agggatctga aaccttggtt     180

acaagggtga tacatatttt gaccgaaaga agtttgccta gcatggaact agtttctaga     240

gttcgagatc tttatcacac taaagtatct gatgtccgat tcttaatacc agtattaaat     300

ggtcttaata aagacgaggt tatagattct ttgcccaaat tcattaaact aaatccagta     360

gttttaaagg aagttttttaa taagctgctg aataatcaag caggtcctac atcatatcct    420

agtccagtta cacctataga gttgttgtag cgtacataca atagacacaa ctagtgcaga     480

tttaaaattc gagtgaaagc aacaagttgt gttagcagag aagnaattac acccagaang    540

atgcagagt                                                           549


<210>  306
<211>  534
<212>  DNA
<213>  Ctenocephalides felis

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n = unknown at position 4

<400>  306
tgangatcgg cttgtgcgcg tacagtggat acaaaattta tcccggccat ggcaaaacca      60

tggtcaaaat tgatggaaag acattcactt tcctcaattc aaaatgtgag gctgctcatt     120

taatgaagag gaacccacgt aaagtaacat ggactgtctt gtacagacgc aagcacaaga     180

aaggtcaaga agaagagttg actaagaaac gtactcgtcg tacacagaaa ttccaacgtg     240

ctatcgtagg agcttctctt aatgacatcc ttgccaagag gaacatgaaa cccgaagtac     300

gaaaggcaca aagagaccaa gctatcaggg ctgcaaaaga gcagaagaaa tccacgaaag     360

cagcaaagaa ggctgcagct ccacctaaag tgaaagcccc accaaaagct aaggccgcta     420

aagtgagcca gaaagcaccc ccagggttgg cggtaaacga taagtggtgt tggagattat     480
```

```
tctaatgtat tatatgaaaa ataatttgta aaatgctaaa aaaaaaaaaa aaaa          534
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```
<210>   307
<211>   549
<212>   DNA
<213>   Ctenocephalides felis

<400>   307
tgaaaaacta cgatccccag aaggacaagc gtttcagcgg caccgtaaaa ttgaagcaca    60

ttccacgacc aaaaatgcaa gtatgtattt tgggagatca acagcattgt gatgaagcta   120

aggccaacaa tgtcccatgg atggatgccg aagctctgaa aaaacttaac aagaacaaaa   180

agcttgtgaa gaaactagct aaaaaatatg atgctttctt agcttctgaa tctttaatca   240

agcagatccc ccgtttgttg ggtccaggtt tgaacaaggc aggtaaattc cctggtctct   300

tgtctcatca ggaatccatg gtgcagaaga ttgatgaagt aaaggaact atcaaattcc    360

agatgaagaa ggtgttgtgt ttatctgtag ctgtggtcat gttgatatgt ctcctgacga   420

gttggccaaa acgttcactt gtcaattaac ttcttggtgt cacttttgaa gaagcattgc   480

agaatgttag gtctctcatg tcaaatccac tatgggcccc caaagatata taatacataa   540

tgatatgtt                                                          549
```

```
<210>   308
<211>   549
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (472)..(472)
<223>   n = unknown at position 472

<220>
<221>   misc_feature
<222>   (524)..(524)
<223>   n = unknown at position 524

<400>   308
gcaagttagg gatcttgata ttaacactac agaaagactt aaaggtgtta tggatttagt    60

atttgaaaag ctgttgatg aacctagttt ttctgtagct tatgcatata tgtgtaaaga   120

gttagctctt atccaagttc ctgctgacca acaaaacggt caatcttcaa ctgttgaata   180

cgtcaatttc cgtaaattgc tcttatcccg ttgtcaaaat gaatttgaga aaaatacagt   240

agatgaaacc gcaagagaag ttaaactgaa agaaattgaa gcgtgtacag accctgagaa   300

gaagaaggaa ctacagttta atttagaaga agaagagcga aagattcgtg ttaaatctgt   360
```

```
tggaaatgtt agatttattg gagagttatt caaacaaggt atgttgccac aaaaattatg    420

atgcagtgcc ttaggatgct ctgcagtcaa ttgaagaaga aagcctcgag tnctggcaaa    480

ttgtgcgaca ttgccggatt tagaaattac aaaatcaaga tttnaacctc tttcttaaaa    540

tgcaagaat                                                            549
```

```
<210>  309
<211>  549
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (503)..(503)
<223>  n = unknown at position 503

<400>  309
atttgtattt atgatttaga tttatagtgc attaagattt gtgcttcaaa aatgttatca    60

cgtgcctcat atacttcatc tgtattctta aattcgctgc agcaatttcg tttacaaagc    120

acattagtaa ttgctgaaca ttcaaatgca aaattaaacc cattgactca aaatgcttta    180

acagctgcat caaaaattgg aggtgaagta acagttttaa ttgctggcaa aaattgcaaa    240

ccgcttgcta atgaagttgc caaagcagcg ggtttgaaac aagtcttatt agcggaaaat    300

gctgcatttg aaaactgttc tgctgaagcc ttgacaaaac ttgttgttgc agttcaagag    360

caatataaat ttacgcatat tattggtggt gcaagttccc ttggcaaggc tgtattgcaa    420

gaatagcggc aagttagatg tttccctatt tctgaaataa ttgatgttaa agatctgaac    480

attcgtcgac aatttatgcc ggnacgcttt cagacactga ggtgaaagat ccctaaagct    540

atcttcgtg                                                            549
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```
<210>  310
<211>  549
<212>  DNA
<213>  Ctenocephalides felis

<400>  310
gcccagtgca cgaggagcat gaggaaccag atccaagaag aactgagcgc ttcgatgcaa    60

tacttggcca tggggggcgca tttctcaaga gacactgtca acaggccagg atttgctgag    120

atgttcttca aatcggcaag cgaagagagg gaacatgcca tgaaactcat gtcttacttg    180

atgatgagag gagaactgac cgagaggctg caggacttga tcagaacacc aactgttcca    240

atcacgactt gggctgatgg tttgagtgct ttgaaagatg ctctgaaatt ggaggcttcc    300
```

```
gttaccaaga agattaaaca tgtgatcaaa gcttgcgaga acgataatgg agctaatgat      360

tatcatttgg ttgactacct gaccggtgaa ttcttagaag agcaatactc tggtcaacgt      420

gacctgccgg aaagatctcc accctgggca agatgatgaa ccaacaaggt gttctcggga      480

gttcttgttg acaagaaact ctgggttaaa tgaaacatac atcccatcaa atatcacagt      540

aataaaata                                                              549
```

```
<210>    311
<211>    548
<212>    DNA
<213>    Ctenocephalides felis

<400>    311
aaaaacaaaa ttatttgata cattttaatc tagaatcatc tgtgtggcta aatattattt       60

gtgtttcaat ttcgactatt tgacgaaaat agataataga aatggcacct aaagcatttg      120

gtgatgtgaa aatgcaagga caagcatata aagataaaag taaaccggct gatattcgta      180

gcagcaatat atgtgctgcg aaagctgttt ctgatgcagt acgtacaagt ttgggaccca      240

ggggtatgga taagatgatc caagcctcaa acggtgaagt gacaattacc aatgatggtg      300

ccacaatttt gaaagaaatg aatgttactc atccagcagc taagatgttg gttgaattgt      360

ctcgggcgca agatattgaa gctggcgatg gcacaacatc agttgtagta gttgcaggtg      420

ctttgctgga ggctgctgaa aagttacttc acagaggact tcatccaact gcatttctga      480

tgcatttcaa agatgtgctc caaagctgtg gaaattctta cacctgtcac accaattgac      540

ttactgtc                                                              548
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```
<210>    312
<211>    549
<212>    DNA
<213>    Ctenocephalides felis

<400>    312
tgtgtattat tcgcacacgt gaaataaatc atatcggtaa acttgtaata tctatttat       60

taactaataa gcgtagtttg tgtaataaca agtaatttct attagtagtc ataagtaatt      120

gaagagaaaa ctattttcca tataagaatt gaaagcataa aatgattctc tccgtgctga      180

aaaaatctcg catcgtgcac ttgtgttttg ccatttcatt cttcacatca ggcctgatca      240

taaacattgc acaattcata ttatacacat gtctcaagcc tttcaacaag aggctttaca      300

gaaaacttgg ttattatttg tgctacacat tttacagtca gatagtgttt ttagctgact      360

ggtggtccaa atctaatctg accttacaca tatcaaagaa agattatgaa caatgtggga      420

aggaacatgg tcttttaatt atgaatcata cgtacgaaac agattggtat taggatggat      480
```

```
gtttacggaa aaaattggtg tcttggaatt gtaggatatg caaaaagact attcaataca      540

tccgcatta                                                              549


<210>    313
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (529)..(529)
<223>    n = unknown at position 529

<400>    313
aaaaaatatt attctaacat tatggcgcag atacctgcac gaccgaaaat tttgttaact       60

catccggata taccgaagga agctattgac atcatgtctc ccaattgcga ataattatg      120

tgcaccggac gtccgtctcc atcacgacaa ggaattttgg aaaaaattgt gggagttcat     180

ggtttaatgt ggtgtactaa agaacgtttg gacaaagaga tattagatgc tgcaggaccc     240

aacattatgg ccatatctac tatgtcggct gggctggaca atgtagattt acctgaaatc     300

cgcaaaagaa atattccaat tggttatact gcaggagttc tgaataatgc tgttgctgat     360

ttaactgttg ggcttatgat agctactgct agaagatttg gagaagctag gaaacacata     420

gagaatggaa catggggaag cggacctgcg tggtttttag gcagaaatgt atctgaaact     480

cagctggtat tgtcggctag gagaaattgg caaactgtgc aagaagatng aaagcttcaa     540

tatgactat                                                             549


<210>    314
<211>    549
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (532)..(532)
<223>    n = unknown at position 532

<400>    314
gtggtgcagg atttgtagat ggtatgaatc ttggagataa caccaaggca gcagttattc      60

gtcttggttt aatggaaatg attcgttttg ttgatgtttt ctatccagga agtaaacttt     120

ctactttctt tgaatcttgc ggtgtggctg atttagttac tacatgttat ggtggtagaa     180

atcgtagagt ttctgaagca tttgtgaaaa caggtaaatc attgaaacaa ttagaagacg     240
```

```
aaatgttaaa tggtcaaaaa ttgcaaggac caataacagc agaagaagtt aattttatgc    300

tgagaaatcg tggcatgcaa gacaaatttc ctttgttcac tgctgttcat aaaatttgca    360

caggagatat ggatgttaaa gaatttctta attgtataag gagccacccg gaacacatgt    420

aagtgcctgc tttataaaat ataaatcaga tttaaaatgc ttctcagatg gtaatattag    480

taatgtcttt acatgaacat aagtgagagt tgctagttgt ttgatatttt gntcttcata    540

tagtatttg                                                           549
```

```
<210>    315
<211>    550
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (365)..(365)
<223>    n = unknown at position 365

<220>
<221>    misc_feature
<222>    (409)..(409)
<223>    n = unknown at position 409

<220>
<221>    misc_feature
<222>    (427)..(427)
<223>    n = unknown at position 427

<220>
<221>    misc_feature
<222>    (441)..(441)
<223>    n = unknown at position 441

<220>
<221>    misc_feature
<222>    (447)..(447)
<223>    n = unknown at position 447

<220>
<221>    misc_feature
<222>    (457)..(457)
<223>    n = unknown at position 457

<220>
<221>    misc_feature
<222>    (543)..(543)
<223>    n = unknown at position 543

<400>    315
cttgtgccgg tccgagagca ccctaaattc aactttgttg gaaaactgtt gggacctaag     60

ggtaattcca tgaaaagatt acaagaagat actatgtgta agatggccgt cttaggtaga    120
```

```
ggctcaatga aagacagaca aaaggaagaa gaacttcgta attccttaga tcccaaatat    180

gctcatttgg ctgatgatct acatgttgaa atatcggctt tgggtcctcc acagaagctc    240

acgctcgagt tgcttatgct ttggctgaag tccgtaatat ttggtccctg ataataatga    300

tacaattcgc caagaacaat gcgtgaaatg atgactgacc caatgcccgc cagaagaaat    360

gagangagca cccacattag acgaggtggt tggctgtggt gcttctcgng aggaggatac    420

taatcgngca gcttcgacat ntggggnatg cttctgngtt ctaatgtgat ccggcctcac    480

ccctcctcac tcgtgtatcc tgtaactaaa tcttcattaa taacaaagtg ctgagaactt    540

gtntaaaccc                                                          550
```

<210> 316
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (33)..(33)
<223> n = unknown at position 33

<220>
<221> misc_feature
<222> (406)..(406)
<223> n = unknown at position 406

<400> 316
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tcttattcat attaattata agaacattta ttngtatttc ttcaaattct tgattaggag     60

catgaattgg attagaaata aatttattat catttatccc tatactaaat gataataaaa    120

atttactatc taatgaatct tcattaaaat attttctagt tcaagttttt gcttcaattt    180

tattattatt ttttatttct ttgaatttt tatttaaaaa cttttttaga ataatatatt    240

ttaatgaaat ttatttaatt ttattaaatt catccctatt tttaaaaata ggggctgccc    300

catttcactt ttgatttcct agaataatag aaggaataaa ttgaataaat aattttatt    360

taataacatg acaaaaaatt aaccctataa tttgttaagt tattgnatta atataaatta    420

ttttatttaa ttcattatta agaattataa ttggagctta ggtggattaa ataatcctct    480

tacaaaaatt atacttattc tcaatacact atggctgaat aatattgttt aataaataat    540

gaataatttt                                                          550
```

<210> 317
<211> 474
<212> DNA
<213> Ctenocephalides felis

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<220>
<221> misc_feature
<222> (4)..(4)
<223> n = unknown at position 4

<220>
<221> misc_feature
<222> (456)..(456)
<223> n = unknown at position 456

<220>
<221> misc_feature
<222> (467)..(467)
<223> n = unknown at position 467

<400> 317
gtcncattgg tgccttccaa acccatgtgt gtcgaatcct tccaggagtt ccctccattg   60

ggtcgtttcg ctgtgcgtga catgagacag accgttgccg tcggtgtcat caagtctgtg   120

aacttcaagg atgcctccgg tggtaaggtc accaaggctg ccgaaaaagc caccaaggga   180

aagaagtagc tagatctacc gatctgctta ctgcagatgt tcaacactgt aatgaaacac   240

tacttccatc gcaaagcgtt tcgaagaaaa aaggcctcat tcattccttt actatatgtt   300

ttttgactca gctttatatt ttatatgact attttataga ataataatta ttttatgttc   360

tgctctatat taaaatgaat ttatattaat gtatggatat tatgtgctaa gaaagaactt   420

gaagagattt gcagctgatg tgtattatag tatggnataa atggaancca aagt   474

<210> 318
<211> 356
<212> DNA
<213> Ctenocephalides felis

<400> 318
agtttgctac acacagcacg tgtaaatttt cataaaataa attaaaaatg gataaacctg   60

tagttcttgc tcgcgttatg aaagtcttgg gccgtacagg atcccaagga caatgtacac   120

aagttaaagt tgaatttatt ggtgaacaaa accgacaaat catccgaaat gtcaaaggac   180

cagtacgaga gggtgatatt ttaacacttt tggaatctga acgtgaagct agaagactaa   240

gatagattaa ttctaaaatg tgagaggtga tatcctgaac tataatatct gggttcaatt   300

atttgtatgg aattataaat atacgactta tcactcccaa aaaaaaaaaa aaaaaa   356

<210> 319
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (537)..(537)
<223> n = unknown at position 537

<400> 319
aaataatctc tgaaaatgtt gaagggcgtt gtaggtcttg ttactggagg tgcttctggt   60

ttgggaaagg ccactgtaga gcgaattgtg caacaaggtg gccgagttgt tttatgtgat   120

ttacctaaat caagtggatc tcaagtagca aaagatattg gagataattg tttatatgca   180

ccagttgatg tcacatctga aaaagatgtt gaggaagcaa tagcattaac taaagaaaaa   240

tttggtcgtc ttgatgttgc tgtaaactgt gctggtatcg gtgtagcatt taaaacatat   300

aatttcaata agcagttgcc tcataaatta gaggatttca caaaagtttt aatggttaat   360

actgttggaa ccttcaatgt aattcgattg ctgtggattg atgggagtaa atgaacctaa   420

taaggatggt caaccaggag tgattgtaac acacaagtgt gctgcttatg atggcagatg   480

ggacaagctc ttattctgcg tccaagggct ttgtggaatg cactgctttt gctaganatt   540

accaggcaag   550

<210> 320
<211> 550
<212> DNA
<213> Ctenocephalides felis

<400> 320
gattcagctt tgcatagaat tgtagatgca actgatgcaa ttgttagcac tgcatattcc   60

cataaaagaa catttattat ggaagtaatg ggacgaaact gcggatattt agctgttgtt   120

gcaggcttgt gtgttgaagc tgattttata tttgcgcccg aagatcctcc agatgccaac   180

tggccaagtg ttttatgcgc actattaagt caggaacgat tagctggaag aaggcaaaat   240

attatcatgg tatcagaagg ggcaattgat agaaatggag aacctataac agcagaaaaa   300

attaaagaag tcattattgc aggtttaaat caggatacaa gaattacagt gcttgccatg   360

tacagagagg tggaagtcct tctgcttttg atcgattact gggatgtcgc atgggggcag   420

aagcagtatt agcccttatg gaagctcatg atgagtctga ccttgtgttg tgaccttgcc   480

cgaaccaaca gtcgtcttca atgatggaat gtgttctcac caaactgtac ttacgcttgg   540

aaaataaaat   550

<210> 321
<211> 550
<212> DNA
<213> Ctenocephalides felis

<400> 321

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gtcaaacatc acaaaaatat atagctttat gtgtcacaaa tgattacact tttatcgtta    60

tgatataata caaaataaat acaatttctt acatgctatt attataattc aatattaaaa   120

catttgtact ataatataac aatgaatttc ttatatttat taatatgctc tctttgtgcg   180

gtagtaaatg ccggtgggga tacattagtt ttattagaca atcttgcaat taaagaaact   240

cattccatat ttttttaaaag cttacaagat agaggttatg ttctaacatt caaattggct   300

gatgaagcca atttagtttt atctaagtat ggagaatatt tatacaagca tttaattcta   360

ttttcacctg ctgtggaaga gtttggagga tcattaagtg tcgaggcaat tcagaattca   420

tagatgaagg tggcaatgtt ttggtagcag gaagtgaatc ctggtgatgc aattcgtgaa   480

tagctctgaa tgcggtttga ggagatgagg aaggacactg tatggacatc ttaatatgat   540

ggtctgataa                                                          550
```

<210>   322
<211>   546
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (28)..(28)
<223>   n = unknown at position 28

<220>
<221>   misc_feature
<222>   (488)..(488)
<223>   n = unknown at position 488

<400>   322

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tttttttttt tttttttatt tgcattgnga tagccggccg attgcattca gttctaaaat    60

gccgatcaaa agtatcaaag ctcgtcaaat tttcgactct aggggcaatc ctaccgtcga   120

agtcgattta gtgaccgaat taggattatt tagagcagcg gttccttcag gtgcttccac   180

aggagcttat gaggctcttg aattacgtga taatgataag actcaatata tgggtaaagg   240

agtatccaaa gcattgcaca atattaatca attgattgcc cccgagttaa ttaaacaatc   300

ttttgaggtt actcaacagg aagagatcga caaatttatg ttgaaactgg atggtactga   360

gaacaaatct aaatttggag ccaatgctat attaggagtt tcattagctg tgtgcaaagc   420

tggtgctgct aaaaagggtg ttcctctgat caacatattg cagatttggc tggaaataaa   480

aaaaatgngc ttcctgtcca ctttcaatgt atcaatggcg gagcatgctg gaataactgt   540

ttcaga                                                              546
```

<210> 323
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (545)..(545)
<223> n = unknown at position 545

<400> 323
cagaagctca agccagagcc gaagaagtcg aggaaatcag gaggaaatac agtgccagaa   60

tccaagaaca agaggagcac atcgagacct tgttggtcaa gatcagcaat ctggagaaac   120

agaagagcag actgcaaagc gaagttgagg tcctcatcat cgatctggag aaagcaaaca   180

gcgctgcccg cgatttgcag aaacgttgcg agcaattgga acgtgtcaac atcgagatca   240

aatcacgtct tgaggagacc attcagttgt atgaaggagc ccagagagat ttgagaacca   300

agcaacagga gttgcagagg gtcaaccacg aattggacaa gaccagggaa cagaaagatc   360

agttggccag ggaaaacaag aaattgggag acgaattggg agatgctcgc aaccagttgg   420

ccgaatacaa cagacgtttg cacgaattgg aactcgaatt gagaagactc gagaatgagc   480

cgaagagttg ctgctgcatc aagaggccga actgtcgcaa ggccaagaca cgttccacgt   540

tggcnacgat   550

<210> 324
<211> 550
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (5)..(5)
<223> n = unknown at position 5

<220>
<221> misc_feature
<222> (522)..(522)
<223> n = unknown at position 522

<220>
<221> misc_feature
<222> (527)..(527)
<223> n = unknown at position 527

<220>
<221> misc_feature
<222> (535)..(535)

<223> n = unknown at position 535

<400> 324
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gcaantcgca aacgagtttc agagcacagc ggctgcgcat ctgttaagct caacggctat    60

agttttttcag tattataatt tgtattaagt cgaagtaaat aacaaacatg agggaaattg   120

tgcacattca aaccggacag tgcggaaacc aaattggagc taagttctgg gagatcattt   180

ctgatgaaca tggaattgac ccaactggag cttatcttgg agatcatgaa cttcaattag   240

aacgtatcaa tgtttattac aatgaggctt ctggtggaaa atatgttcca cgtgccattc   300

ttgtggattt ggaacctgga accatggact ccgtgcgttc tggaccatac ggtcaaattt   360

ttaggccaga caattttgtt ttcggacaaa gtggtgctgg taacaactgg gctaagggac   420

attatactga aggtgctgaa ctagtcgact ctgtttggat gttgtgcgta aagaagctga   480

atcttgtgat tgctgcaagg ttccactacc cattcttggg angtggnctg cttgnatggg   540

acactattga                                                         550
```

<210> 325
<211> 550
<212> DNA
<213> Ctenocephalides felis

<400> 325
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cagcaactca tttaatattt gtggatcctg atgcgaaaaa tgaaacatgg atattacaca    60

cacatattgc agcagtagaa cgattaccgt tgagtactac aggatgccca cttcaaattc   120

gatgcaaaac attccaatca gtaatatttc ttataagaaa agaaacgat agccatgacg    180

tttataatac tttgttgcaa ttagcccaac ctgtttctat cgatgatctg tattgcttcc   240

agtacaccat aaataaaaat gatatgcata agagcgaagg ttggaattat tttaatttag   300

aggatgaatt taaaagaatg aatgttccaa tgatgaatg gatttacaca gatttaaatg   360

aaaattatga gctatgtgat acttatccta attgttgtat gtgcctgcta acagcacaat   420

aaatatgtta caaggaagtg caaaatttcg atccaaagga agataccggt ctcacatatt   480

acacaagaac aagcttcaat atgcagatca gcaacctttc tggttcagtg cacgatgtct   540

gagatgacaa                                                         550
```

<210> 326
<211> 550
<212> DNA
<213> Ctenocephalides felis

<400> 326
```
aaaattttaa ttttaattat tatgtgttcc tttatcattg atgcgagaag taaaagtttc    60
```

```
gaaataaagt taagacggtg gaaaagtcct cgacttcaat tgattgaaat ggatcgaaat    120

atgcgtatag cggtttggaa agatattcaa gaaaacgaaa gctattattc ggatccatct    180

aaacctaaac ctcctccagg tcctaaggac aatgatacta tagcaattta taaattttta    240

gatactgaat tttatgctga ggttggaata ggccatcctg taaagtattt caaacttgtg    300

gttgacactg catgggcaga aacatgggtg gcctcgaaac aatgtgggtt aaagtgtgtt    360

ggatgttgga atcttaataa atatgactct ttggcatcat caacatttca agaaaacggt    420

aaagaatttt cttttggctc agcaaagaac cataacaggg tcttctcaat agaaagtttt    480

atattgccac ataaatgtta aaatcagact ttggggaagt acatgtttgc cttgcactct    540

gtttcaaaca                                                           550
```

```
<210>  327
<211>  542
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (539)..(539)
<223>  n = unknown at position 539

<400>  327
agctcacaga attcagggct agctttaacc acttcgacaa gaaccgcaca ggacgtttgg     60

cgcctgatga gttcaagtca tgcctggttt ccctcggcta ctcgataggc aaggatcgtc    120

aaggcgattt ggacttccaa aggattttgg cagtagtcga tcccaatgga actggatacg    180

tccacttcga tgcattctta gatttcatga cccgcgaaag tacagacacc gacactgccg    240

agcaagtcat cgacagcttc agaatcttgg cctccgacaa gccatacatt ctgcccgatg    300

agttacgcag agaattgcca ccagaccagg ccgaatactg cattcaacgt atgccacctt    360

acaagggacc caatggtgta cccggtgctc tcgattacat gtccttcagc acagccttgt    420

acggtgaaag cgatttgtaa ggtagaataa attttcataa acatttaagc aaacatttga    480

caagtacaca taaaggtaaa taatgaagtt atgagagtta cgatcaaaat tagcattgng    540

ct                                                                   542
```

```
<210>  328
<211>  542
<212>  DNA
<213>  Ctenocephalides felis


<220>
```

<221> misc_feature
<222> (2)..(2)
<223> n = unknown at position 2

<400> 328
gntatggaaa aagccgaaaa gctgggccat cgcgttcaaa aatgtgtggt tgtcgctcat   60

ctgaaacgtg tcactcctgg aaccagcgag gagatcaatg gagtcgagac tcctatgaca   120

gatggccgcg accattggtg gcatgaggaa atggacgaag ttgaaccagc atgttaccca   180

gaatggatgg ctgctgagga tccattgttc atgctttata caagcggctc cactggtaaa   240

ccgaaagggg ttctacatac tacaggtggt tatctattgt atgctgccac cacatttaaa   300

atggtttttg actacaagcc cgatgacatc tactggtgca ctgctgatgt aggatggatt   360

actggacatt cgtatgttgt ctatggacca ttagctaatg gcgccacctc cgttatgttt   420

gaagggacgc cattttatcc ggataacgat agatattggg cggtattgaa aaatacaaag   480

tgacccagtt ttacacagca ccaaccgcat aagacttgat gaagttcggg aagaccagtc   540

aa   542

<210> 329
<211> 542
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown at position 31

<400> 329
ttgagaaact tctcaaaatt gataaaaaag ntgctgtagt aatggccatg gatatgttgt   60

tagcaggagt tgatactaca tcaaatagta cagcatttt gctgtatttc ctggctacga   120

atcaaaaatg ccaagataaa ctacgtgaag aaatcagaac aattctgcca aataaggatt   180

cacatgtaaa taacgaatca tttcaccatt tgccgtattt gagagcttgt atgaaagagt   240

cgagtagaat attgccaata attggaggca ctgttaggaa agtaccagtc gatattgttt   300

tatcaggata tcaaattccg aaggggaccg aggtggttct aagtcatctt actacatcaa   360

tgaaaagcag tcaattccct gaacctgaaa aattcatgcc agaacgatgg ctgagcagcc   420

aggaatcaga aggatgtcct ttagcaaaaa atgctcatcc attttcgcac atgccttcgg   480

tttgggcctc gcactgcgtg ggaaaagatt gcagatttgg aaatggaact ttatatgaag   540

ta   542

<210> 330
<211> 539
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (14)..(14)
<223> n = unknown at position 14

<220>
<221> misc_feature
<222> (29)..(29)
<223> n = unknown at position 29

<400> 330
taaaaatttt aatngcttat tcttcaggng ttcatataag aatagtatta ggaggaattt   60

ttactataaa tatattaggt attgtaggta ggtttatttt aataatttct catggattat   120

gttcttctgg gatattttgt ctttctaata ttatttatga acgatcagga agacgaagaa   180

ttttaattaa taagggttta ataagattta taccttcaat aacattattt tgatttttat   240

tatgtagatc taatatagca gctcctcctt cattaaattt attaggtgaa attatattga   300

ttaattctat aataagttga tcaataatat taatagtatt aattataata atttcattta   360

taagagcaag gtatagacta tatttatttg cttatagtca acatggaata agaagaataa   420

gactatattc ttgtcttctg gaagggttcg agaatattta ttattatttt tacattgatt   480

ccattaaatt attaatttta aaagagatt attataatta tttataaaaa aaaaaaaaa   539

<210> 331
<211> 542
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (2)..(2)
<223> n = unknown at position 2

<220>
<221> misc_feature
<222> (32)..(32)
<223> n = unknown at position 32

<400> 331
gnctaatcga agtgatcgta aaatattaaa tngacagcta tttgttaaaa caattgtgca   60

ttatagaaaa acatttaagt gaaaattaat tacgtttcag cagaaataca tcttctttgt   120

aaatttgggg ttaataatct ttcaaaatgc agatctttgt gaaaactctc acagggaaaa   180

```
ccattacttt ggaggtagaa ccttcagata ccattgaaaa cgttaaagct aagattcaag    240

ataaagaagg aatcccacca gatcagcaac gtttgatttt tgctggtaag caattggaag    300

acggcagaac tttgtctgac tacaatatcc aaaaggaatc aacattgcat ttagtattac    360

gtcttcgtgg aggtatgcaa atctttgtaa aaacattgac tggaaaaact attacattag    420

aggttgagcc ctctgatcca ttgagaatgt aaaagctaaa atccaagata aagaaggaat    480

tccccagatc agcagcgttt gtctttgctg gcaaacaatt agaagatgga agacttgtct    540

ga    542
```

```
<210>    332
<211>    542
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (3)..(3)
<223>    n = unknown at position 3

<220>
<221>    misc_feature
<222>    (32)..(32)
<223>    n = unknown at position 32

<220>
<221>    misc_feature
<222>    (38)..(38)
<223>    n = unknown at position 38

<400>    332
gtnacattga tcggatctgt tagcaaaggc tnccaaantg ccgaaatcga tgaatgttcg    60

tgtgaccacg atggacgcgg aactggagtt cgcgatccag cagaccacca ctggaaaaca    120

gcttttcgat caggtggtca agacgatcgg tctgcgcgaa gtctggtttt ttggactcca    180

atatactgac agcaagggtg atttgacgtg gattaagctt tacaaaaagg tcatgaatca    240

agatgtcaaa aaggaaaatc cacttcaatt caaattcaga gcgaattttt atcctgaaga    300

tgtagctgaa gaacttatac aggacattac atctcgtctt ttttatcttc aggttaagaa    360

cgctatactg tctgatgaaa tatattgccc tcctgagaca tcggttcttc tagcatctta    420

tgctgtcaag cccgacatgg agattttcaa aaagaccaac actcttctgg attttggcga    480

acgatagact gtaccacaaa gggtaatgga tcaacacaaa atgtctaaag aagaatggga    540

ac    542
```

```
<210>    333
```

<211> 542
<212> DNA
<213> Ctenocephalides felis

<400> 333
cagacactga caaaggcaaa aatgggtcgt cgaccggcca gatgttatcg ctattgcaaa   60

aacaagccct accccaaatc tcggttctgt cgtggtgtgc cagacgctaa aattcgtatc   120

ttcgatttgg gtaagaagaa ggcaggcgta gaagattttc cactatgtgt gcatcttgta   180

tctgatgaat atgaacaatt gagttctgag gcactggaag caggacgtat ttgctgtaac   240

aaatacctcg ttaagaattg tggtaaagat caattccaca tcagaatgag gctgcatcct   300

ttccatgtta tccgcatcaa taaaatgtta tcgtgtgctg gagctgatag gctccaaact   360

ggaatgcgtg gtgcttttgg aaaaccacaa ggtactgttg ccagagttca catcggtcaa   420

ccaatcatgt ctgtcgttcc agtgacagat acaaggccgc tgttgtagag gctctgcgtc   480

gtgctaagtt caagttccct gcagacaaaa gatctatgtt ccaagaaatg gggattcact   540

aa   542

<210> 334
<211> 542
<212> DNA
<213> Ctenocephalides felis

<400> 334
cacaagttct attcaaccag atagaatctt acttatggat acgtttttcc aaattttgat   60

cttccatgga gagactatag ctcaatggag agctttgcga tatcaagata tgcctgagta   120

tgaaaatttc aaacaacttt tgcaagctcc agtagatgat gctcaggaaa ttttattgac   180

acgttttcca atgcctcgtt atattgatac cgagcaaggt ggatcacagg ctcgattttt   240

attatccaaa gtcaatccct cgcagacaca taacaatatg tatgcttatg gaggagacgg   300

aggagcacca gtattgactg atgatgtgtc tcttcaagta tttatggagc atctaaagaa   360

attagcagta tcttcaaatt cataaaatta tataaagaca gaaatagata tacaaatctt   420

attttatctg taatattgtg tgtcagtctt tatatttgca atatagataa gtaataaatt   480

caattgatta tgaacctaaa tacattgata tattaaaaga acatttacac taaaaaaaaa   540

aa   542

<210> 335
<211> 542
<212> DNA
<213> Ctenocephalides felis

```
<220>
<221>  misc_feature
<222>  (538)..(538)
<223>  n = unknown at position 538

<400>  335
caggagaaag cttcagttcg tgcacactaa atgtgttagt accaggcgag aagaaaaaga      60

caccagcttt cagcactttc ccagagtccg ccagcgtgca agagggcgag agtgcatcgt     120

tcttagttcg cacagaagac gaagttcttg acttcaatg gataaaagat ggtaaaccta      180

ttgacgagaa gagctctcgc tatcgattca caatggaggg caaaacgacc ttccgattag     240

agatagtatc ctgcgccagc atagacgtgg gccaatacca agccaaagcc atcggtaaga     300

caggagaaac attcgctgcg ttctcagtga atgtcgcagc cgagcattga gccgaacaac     360

taaattaata accgatcctg cacacggctt aggccaaaaa acgagacgac tcgcgttgaa     420

tcgcgagata tcgtgtaaac ttaagtttat taaattatta tgtttatatg aataaattat     480

tagtgtgatc taagcgtgtt ttcattataa ttcgccttgc cacttcgctt atatatangc     540

cg                                                                    542


<210>  336
<211>  542
<212>  DNA
<213>  Ctenocephalides felis

<400>  336
cagacactga caaaggcaaa aatgggtcgt cgaccggcca gatgttatcg ctattgcaaa      60

aacaagccct accccaaatc tcggttctgt cgtggtgtgc cagacgctaa aattcgtatc     120

ttcgatttgg gtaagaagaa ggcaggcgta gaagattttc cactatgtgt gcatcttgta     180

tctgatgaat atgaacaatt gagttctgag gcactggaag caggacgtat ttgctgtaac     240

aaatacctcg ttaagaattg tggtaaagat caattccaca tcagaatgag gctgcatcct     300

ttccatgtta tccgcatcaa taaaatgtta tcgtgtgctg gagctgatag gctccaaact     360

ggaatgcgtg gtgctttgg aaaaccacaa ggtactgttg ccagagttca catcggtcaa     420

ccaatcatgt ctgtcgttcc agtgacagat acaaggccgc tgttgtagag gctctgcgtc     480

gtgctaagtt caagttccct gcagacaaaa gatctatgtt ccaagaaatg gggattcact     540

aa                                                                    542


<210>  337
<211>  542
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (33)..(33)
<223>  n = unknown at position 33

<400>  337
cgaaaccata aaaaaatacg gcaaactcaa tgncctcatc aacaatgccg gcatgttgga    60

aacaggcacc atcgagacaa ccagtctaga ccagtacgac agaatcatga acgttaacat   120

gagatctgtg taccatttga caatgttagc agtgcctcat ttgattgaga cgaagggaaa   180

tattgtgaat gtctcgagtg ttaatggtat acgttctttt cctggtgttc tggcttataa   240

tatatccaaa gcggctttgg atcagtttac aagatgcgtt gctttggaac ttgctcttaa   300

gcaagttcgt gttaattctg ttaatccggg ggtcattatt actgagatac ataaacgggg   360

gggaatggat gatgaaactt ataaaaaatt cttagaacat tgcaaaacta ctcacgcctt   420

aggacgtcca ggacaagtaa gtgaagtatc caatgccatt gcgtttcttg caagcgagca   480

cagcagcttt attactggtg cttcgttacc ggtgatggag gcagacatgc ctgtgcccac   540

ga                                                                  542


<210>  338
<211>  542
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (31)..(31)
<223>  n = unknown at position 31

<400>  338
aaaaaaacaa gctttttaa cgaaatattt ngcaaaaga gaaatatata aacaaactta    60

atgtctgaaa caatataaaa taatattttc aacgctaacg cttaaataat tccaaaacaa   120

atcatgagtg actattttct tttatgttaa cctctttacg caaagaaaat gtttataaac   180

ttcaaacaac gttaaggtga taaatgttta cctaataata ataataataa gtttattttg   240

attttgtgta taaaaacatg tcttggaggc tgctgttgaa gttttaattt gcaagtgtta   300

gatacaactt aataaaaaat gtctcaatga tgacaataac aaaaaattct tttacccaag   360

tgcctcttgt atttataata tgatatacaa aatgcccccg tttagacgta aaaaatctgg   420

aaagtctttt ccagttaaag tttgcacttt ggacgctgag ttagaattta atttggagtg   480

gaaagcgaca ggcaaagatt tattcgaatt agtttgccgg acgattggtt acgagagacc   540

tg                                                                  542
```

<210> 339
<211> 542
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (32)..(32)
<223> n = unknown at position 32

<400> 339
```
agttcatctt atgttgtaat tatattatca gnttgttgta aacacttctt attttatatc      60

ataaatatcg·ctgtatttga tttacacgat ggctgcaaga ttgaattcat tgtttaaaac     120

agatttcaca aattacataa aacgtttaaa cagcgttcaa atacgttgct taaatttgca     180

agaatatcaa agtaaaactc tacttcaaaa aagtggcgtt gccgttcaag cctttagatt     240

attagataac accgaaaaca caagtgtctt aaatgatttc aaagtccccg aatatgttat     300

caaggcccaa gttttagcag gaggtagagg caaaggccat tttgataatg gctttaaagg     360

tggtgttcat ataacaaagg accctaaaga aatattgcca attgctaaaa atatgatggg     420

tcacagactt attacaaaac aaacaaaagc tgaaggtata cttgtcaaaa agttatggtg     480

cacaaagcgt tgacatttgc gggaaacata ttatgtatca tcatggcaga gctcatatgg     540

cc                                                                   542
```


<210> 340
<211> 542
<212> DNA
<213> Ctenocephalides felis

<400> 340
```
gagaaaagag tggaagaatt taaattaaag aaaatgtgga aaagtcccaa tggaactatc      60

agaaatattc tcggtggcac agtcttcaga gaagcaatca tctgcaagaa cataccccga     120

ttggtaacag gatggaatga gcccatagtc atcggcagac acgctcatgc tgatcaatac     180

aaagccaccg acttcgtggt accaggaaag ggtaaattag aattgacatt tacccccgaa     240

tcgggaagtc caatgagctt caccgtccac acttaccaag gacctggagt cgccatggga     300

atgttcaaca ccgatagttc aattgtagat ttcgctaatg cctcattcca atatgcctta     360

aaccgaaaat tgcccttgta cctatctacc aaaaatacca ttctcaagaa atacgatggt     420

agatttaagg atatattcca ggaaatttat gacaagcaat acaagaaaga atatgaagct     480

gtggaatctg gtacgaacat cgactgatcg atgacatggt cgctacgcaa tgaaatcatc     540
```

tg   542


```
<210>   341
<211>   542
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (533)..(533)
<223>   n = unknown at position 533

<400>   341
attccttttt tttttttttaa atattagtgt aactttttaat aaaattatttt actcaatatc        60

ttaaaattgt ttgtgatggc acatgttttta taactgtttt gaaaatttcg agtcacttct        120

taaagttaaa atttaattaa agtcagtgta gtggtaataa ataaattttg gcatcaaatt        180

aagtattgga tatcatggcg aataataatg tgataaattt tggggcagga cccgccaaac        240

tcccagaaga ggtgatgctt gaagtgcaag aacaattggt gcattatggt gaaacaaaaa        300

tcagtgtaat ggaaatgagc catcgatcaa aagactacat gaaaatcaac gatgatacac        360

aaaatgcagt taaagaatta ttcaaatacc ggacaattca aaatactatt tctgcaagga        420

ggtggcacag gatgtttgca gccataccac tgaatatttt gaagactgga gttgcagatt        480

atgttgttac aggttcttgg tctgcaaaag ctgcaaagaa gcaccaaatt ggnaagtaac        540

at                                                                          542


<210>   342
<211>   542
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (2)..(2)
<223>   n = unknown at position 2

<220>
<221>   misc_feature
<222>   (33)..(33)
<223>   n = unknown at position 33

<220>
<221>   misc_feature
<222>   (39)..(39)
<223>   n = unknown at position 39

<400>   342
cnttaatata ctatgaatgg tggagaagat tgngctcang atgtgaaaga gcaagaacaa        60
```

```
gttaacggtg gcggtgaaga aggagccggc gatgcgtctc gtgaaaatgg aagcgccgaa      120

gctcctggcc gtgacgacga taggaaactc tttgttggtg gacttagttg ggaaacaact      180

gataaggaat tgcgtgaaca ctttggtgca tatggagata tcgatagcat taatgttaaa      240

actgacccca gtactggtcg atcacgagga tttgcattca tcgtgtattc atctcctgaa      300

tccattgata aagttgttgc tgtatctgaa catataatta caacaagaa agtagatcca       360

aagaaagcca aggcccgcca tggaaaaatt tttgttggag gtttgacgac tgaagtcagc      420

gatgatgata ttaaaaacta tttcaatcag tttgggacga tcatagaagt tgagatgcca      480

tttgacaaga cgaagaatca acggaaaggt ttctgtttat acttttgaat ctgagcaagt      540

tg                                                                      542
```

```
<210>   343
<211>   542
<212>   DNA
<213>   Ctenocephalides felis

<400>   343
aaaatactag ttttattgcc attaatattt gaaaaatatc attgagaaaa tgtcaatatt       60

attatgcgcg ctattttttg cttcgacgct tagcaatgaa actttgtcga acaccatca       120

agttaagaat cgtcgatttt acatagatta tgataaaaat acattcatga tggatgacaa      180

accatttcga tacatagcag gttcattaca ttattttcgg gtacatccgc aacaatggaa      240

agaccgtttg gaaaagctaa aagcagcagg tttaaatgcc gttgatacat atgttgagtg      300

gtcacttcac aattttgatg aaggaaaata ttggtggggc agcaacgccg atttggagca      360

atttattaaa actgcacaag aagtaggatt gtatgtaatt ttgagaccag ggccatacat      420

ttgcgctgaa cgtgattttg gaggccaacc ttattggctc ttatccaccc agaaaaagat      480

attaaaccaa ggacactgtt cgtatatgg aagcagcacg agatggatac aagaatatta      540

aa                                                                      542
```

```
<210>   344
<211>   550
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (538)..(538)
<223>   n = unknown at position 538

<400>   344
```

```
cttgaccgcc accgagtctg aagtggctgc actcaacagg aaggtgcaac aaattgaaga    60

agatttggaa aaatctgaag aacgtgccgg aagcgctacc accaaattgc ttgaagccac   120

acaagctgcc gatgaaaaca accgtatgtg caaagtattg gagaacccgc tcacaacaag   180

atgaagagcg aatggaccaa ttgaccaacc aattgaagga agcacgtctc ttggctgaag   240

atgctgatgg taaatctgat gaagtatcac gcaagttggc cttcgttgaa gatgaacttg   300

aagtagctga agaccgtgtt aagggaggtg acagcaagat catggagttg aagaagaat   360

tgaaggttgt aggaaactcc ttgaaatctt tagaagtatc cgaagaaaag gccaaccaaa   420

gagtagaaga attcaaacgc caattgaaga ctttgccgtc aaacacaagg aaccgaactc   480

gtgccgagtt cgccgaaaag accgtcaaga actgaaaagg agtcgcaggc tgaagacnat   540

tggcataaca                                                          550
```

```
<210>   345
<211>   550
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (33)..(33)
<223>   n = unknown at position 33

<220>
<221>   misc_feature
<222>   (539)..(539)
<223>   n = unknown at position 539

<400>   345
aatcggtgta gtgcatatag gaataaaata ctngttttat tgccattaat atttgaaaaa    60

tatcattgag aaaatgtcaa tattattatg cgcgctattt tttgcttcga cgcttagcaa   120

tgaaactttg tcgaaacacc atcaagttaa gaatcgtcga ttttacatag attatgataa   180

aaatacattc atgatggatg acaaaccatt tcgatacata gcaggttcat tacattattt   240

tcgggtacat ccgcaacaat ggaaagaccg tttggaaaag ctaaaagcag caggtttaaa   300

tgccgttgat acatatgttg agtggtcact tcacaatttt gatgaaggaa aatattggtg   360

gggcagcaac gccgatttgg agcaatttat taaaactgca caagaagtag gattgtatgt   420

aattttgaga ccagggccat acatttgcgc tgaacgtgat tttggaggcc aaccttattg   480

ctcttatcac acccagaaaa agatttaaac caaggacaac tgatttcgta tatggaagng   540

cacgagattg                                                          550
```

```
<210>  346
<211>  482
<212>  DNA
<213>  Ctenocephalides felis

<400>  346
caagctgtca aagtctggca aatatatttt aatttaataa tttttgtctg ttttaaataa        60

aaaatgtttc ggagagcgat ttctagtgct actaaattgc acaaacaaac tttaggtaat       120

caaattgtgc aagtcaggaa ccatggtgga actgccaatt accgctgtgc ttcacgtcct       180

tcaaaagaaa ttaaacttct cggtgaactt actggggctt taatgtggta ctggtgcttg       240

taccatattt ggactgaacc ggatcatatt ttaggagagt ttccttatcc tgatcctagt       300

aaatggacgg atgaagagct tggtatccca gccgagtaat gatggatagt taattgatag       360

aaataattaa atattgaaat ttaatgaagt atctggattg tatatggtac tgcaatttgt       420

atatagaaag tgaataagat gtgttaaacg gtagtgaaat ggaaaaaaaa aaaaaaaaaa       480

aa                                                                      482


<210>  347
<211>  550
<212>  DNA
<213>  Ctenocephalides felis

<400>  347
gctactcatt ttacgtaacg ttttagaagt gtgtgggtgt ggtgctaatt ttagcaccgt        60

agcgatcgtt tttattaagt ttttttttatt ttgagtaata gttttaatat attttaccaa      120

aatgttgcat cttaagtcaa tcaccaaaag tgcactgaaa cataacccct ccgaagtgtc       180

cacattggtc aaagctctgc aacggccat ccaaacgcgc tcttactccg agcaccaaat        240

tcccgatagg ctgaaggatg tcccaacaca tcctaatcca agattttttcg acatggtgga      300

gtacttcttc caccgtgcct gccagatcgt cgaatctaaa ttggtcgagg acatgaaagg       360

aagcaaaatg acagttgaag ataaaactaa gaaagtcaaa ggtattctta tgttaatgca       420

gccatgcgat cacattttgg aaattgcttt cccattgcgc agagattcag gaaactacga       480

aatgattcag ggttaccgtg ctcaacacag cacacatcga caccaccaaa ggaggttccg       540

tttcaatggt                                                              550


<210>  348
<211>  550
<212>  DNA
<213>  Ctenocephalides felis


<220>
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```
<221>  misc_feature
<222>  (523)..(523)
<223>  n = unknown at position 523

<400>  348
gtcacttgta gcggtttgtt cgattataat attttttacga aacaatgaaa gtaatattga      60

gaaacaaata atacaaatgt agttgatttc gtacatttta tagcaatctt cacgatggcc     120

gccggtccga tagcagaaag aaatcaagat gccactattt atgttggtgg tttggacgat     180

aaagtctcag aaagtcttat gtgggagcta tttgttcaat ctgggcctgt tgtgaatgtc     240

catatgccaa aagatcgagt aactcaaatg catcaaggat atggatttgt tgaatttctg     300

ggagaagaag atgcagacta tgcaatcaaa attatgaaca tgataaaact ttatggaaaa     360

ccaattaggg tcaataaagc ttcagcacat cagaaaaatc ttgatgtcgg tgccaatgtg     420

tttataggaa atctagacac agaagttgat gaaaaattat tgatgacaca tttctgtttt     480

ggagtaattc ttcaaacccg aagatatgag ggatccaacc tgnaatcaaa gggtttgcat     540

cataaatttg                                                           550


<210>  349
<211>  550
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (547)..(547)
<223>  n = unknown at position 547

<400>  349
ttaatgtcga cggaacgcct ttaacagtaa ataaagaagt atttgcatca ttggatgagc      60

ccgcaccagg agtagtacct actcctgaac ctacacctgt accgaaaccc gagcaaaaat     120

gtaaaaaagt aaaatttagt tgcgtgaatt cgtgcagttc acccgaaatg cagtattgtc     180

cggaaatagg agcagatccg gttaaggaat cctgtagccc agatcaagtg tgcgctgatc     240

aaagtggata tctacagtgc accactaaag aaagtacagt ctgcaaagta caaggtttca     300

aatgtccgtc accatcgaga ttttatccaa atataaatga ttgtcaaagc tattattatt     360

gtgacgaaaa tagtatagga acccaatatt attgcccgca aattttgcat atgatccgtt     420

acgtcataat tgcggcctat ggctctgggc acaaaatgct atacagttac atgtctgcca     480

gcctaaggtg cttccgtaca ttggtgataa atattgacgt cgatgtatgg ccggaagagg     540

accgtangca                                                           550
```

```
<210>  350
<211>  550
<212>  DNA
<213>  Ctenocephalides felis

<400>  350
cgagtttata ttttattttt aataatttaa tttatattat tgaatgggag attattagaa      60

ttaattctat aataattatt tttagaatat tatttgattg aatatcttta atatttataa     120

gatttgtatt aataatttct tcaatagtag ttaagtatag agaaagatat ataatagaag     180

attttaataa aaatcgattt ttattattag tattaatatt tgtattttct ataataataa     240

taattattag tccaaattta attagaattt tattaggttg agatggatta ggtttagttt     300

cttattgttt agttatttat tatcaaaata ttaaatctta taatgctggt atattaactg     360

ttttaataaa tcgaattggg gatgtgcttt attaattaga atttcttgga taataaatta     420

tggtagttga aattatttat tttatataaa atatataata aataatttga aataatttaa     480

ttatattttt gatttaattt ctgcaataac taaaagagca caaatccttt tcttcttggt     540

accagctgca                                                            550


<210>  351
<211>  358
<212>  DNA
<213>  Ctenocephalides felis

<400>  351
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca      60

aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa     120

agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgggaa aatgttcttc     180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg     240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca     300

aatacataat ctaataaacc agcaagtgaa ctaaaaaaaa aaaaaaaaaa aaaaaaa       358


<210>  352
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (412)..(412)
<223>  n = unknown

<400>  352
tttttttttt ttgaacggcc caaacgattt attttttatta aaaagataca tgtaatttca      60
```

```
taaagcttct atatttatat attttaaata atcagaaatt actatagtta atgacatttt      120

gtttgtgctc cttacataaa atacaatttt atacattta attttatac atatttttta       180

tatttaattg cacagatcat ttgtgtattt attatattaa ttgactactt tatgataatt      240

tgaatcctaa ttagtctatt caagattgtt ttcctggttt aagccttact tagcaatctc      300

acttttgcat tcttcgccgg gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg      360

caagccattt ggacaatcat aatgttttat ttgccatttg ttgttaacca anaaacattg      420

ataatatttt ttacaatctc ttcgatcgga aaaaacgttt tcacttttgc atgcagttct      480

gcacgagaaa gatttgggtc                                                  500
```

```
<210>   353
<211>   346
<212>   DNA
<213>   Ctenocephalides felis

<400>   353
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca      60

aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa      120

agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc      180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg      240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca      300

aatacataat ctaataaacc agcaagtgaa ctaaaaaaaa aaaaaa                     346
```

```
<210>   354
<211>   386
<212>   DNA
<213>   Ctenocephalides felis

<400>   354
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacatttta       120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat      180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt      240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca      300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt      360

tattagattc gatgtaagat atatgt                                           386
```

```
<210>   355
```

```
<211>  387
<212>  DNA
<213>  Ctenocephalides felis

<400>  355
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta     120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat     180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt     240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca     300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt     360

tattagattc cgatgtaaga tatatgt                                         387


<210>  356
<211>  492
<212>  DNA
<213>  Ctenocephalides felis

<400>  356
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cataactata gtaatttctg attatttaaa atatataaat atagaagctt tatgaaatta     480

aaaaaaaaaa aa                                                         492


<210>  357
<211>  360
<212>  DNA
<213>  Ctenocephalides felis

<400>  357
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca      60

aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa     120

agtaggagaa gccctcagga atgtcgtgga acttcgttta aatttgggaa aatgttcttc     180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg     240
```

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```
catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca      300

aatacataat ctaataaacc agcaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      360
```

```
<210>   358
<211>   372
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   358
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg       60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt      120

tcttggttaa caacaaatgg caaataaaac attatggttg tccaaatggc ttgcactttg      180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg      240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaaaaaa aaaaaaaaaa      360

aaaaaaaaaa aa                                                          372
```

```
<210>   359
<211>   269
<212>   DNA
<213>   Ctenocephalides felis
```

```
<400>   359
gtgttaagtg gtatcaaaac ttggtcaccc agtttatgag agaagtctta ccacaacatt       60

tccaaagcat ttgtctggtg tagcaaaaca tcgtgcccac tccatgggct ttcgtagact      120

tcagatactg cttccattaa agacttggaa gcactttgca cagctctaat acatcttatg      180

tagttattaa attccttttg cagtctatta gcactatttt gctgcctggt gaagttttgt      240

aaatgctcat caaaaatatc atctgcggt                                        269
```

```
<210>   360
<211>   353
<212>   DNA
<213>   Ctenocephalides felis
```

```
<220>
<221>   misc_feature
<222>   (15)..(15)
<223>   n = unknown
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<400>   360
tttttttttt tttgnttttg gttcacttgc tggtttatta gattatgtat ttgttcatct       60

ataaaactaa tagttaagaa aaattatttc aagttacaat ttcacacgat gcaatttttcc      120
```

```
acaacatcat taatttcttc caatctggat tcccatttat tcaaattgtc tgaagaacat    180

tttcccaaat ctaaacgaag ttccacgaca ttcctgaggg cttctcctac tttaatgcca    240

acatcagttg aaactctggc tgctgctagt tgtatattta atgcaacctt ttgcatgcat    300

ttggccgatt cttttcgttc cctgaaactc attcttgcag gcaatttatc agt           353
```

```
<210>  361
<211>  173
<212>  DNA
<213>  Ctenocephalides felis

<400>  361
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac     60

ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag    120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt           173
```

```
<210>  362
<211>  379
<212>  DNA
<213>  Ctenocephalides felis

<400>  362
tttttttttt tttttttttt tttttttttt ttatatttaa ttgcacagat catttgtgta     60

tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt    120

gttttcctgg tttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt    180

gggtatgcat cgcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgttt    240

tatttgccat ttgttgttaa ccaagaaaca ttgataatat tttttacaat ctcttcgatc    300

ggaaaaaacg ttttcacttt tgcatgcagt tctgcacgag aaagattttg ggtcaaacca    360

ttcgttgacg tcgttcagt                                                 379
```

```
<210>  363
<211>  173
<212>  DNA
<213>  Ctenocephalides felis

<400>  363
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac     60

ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag    120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt           173
```

```
<210>  364
<211>  379
<212>  DNA
```

<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (57)..(57)
<223> n = unknown

<220>
<221> misc_feature
<222> (68)..(68)
<223> n = unknown

<220>
<221> misc_feature
<222> (122)..(122)
<223> n = unknown

<220>
<221> misc_feature
<222> (250)..(250)
<223> n = unknown

<400> 364
tttttttttt ttttttttttt tttttttttt ttatatttaa ttgcacagat catttgngta   60

tttattanat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt   120

gntttcctgg tttaagcctt acttagcaat ctcactttt g cattcttcgc cgggtggcgt   180

gggtatgcat cgcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgttt   240

tatttgccan ttgttgttaa ccaagaaaca ttgataatat tttttacaat ctcttcgatc   300

ggaaaaaacg ttttcacttt tgcatgcagt tctgcacgac aaagattttg ggtcaaacca   360

ttcgttgacg tcgttcagt   379

<210> 365
<211> 237
<212> DNA
<213> Ctenocephalides felis

<400> 365
ctgctgctgc accgggaaca cccccctgata ctggcgtatc acaaaattga gaattatgtt   60

ggttcaccaa ttgtttaact tctttggcaa ctgctggatc gattgtgctg gaatctaaga   120

acaatgtatc ttttttggca gatgccacca ttcctttgta acagtctaat actatggcgt   180

tgtttggcaa cattgtgacc acaaagtcgg attttttggc aacttcggca gccgagg   237

<210> 366
<211> 425
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (377)..(377)
<223> n = unknown

<400> 366
tctgtaacta agttgtttag ttggaaatcc tttatgtgca acatctacat ttaaataagg   60

tttccatcct aaaacacagc tagaaaataa cccataccat agatccattc catcaccaag   120

agaaacaatt cgaccactgg gtggtgtaaa gaaggacttt cctacctgaa caaattgttt   180

ggagagtgca tgcctaaata tgatgtcaat acattgcagg gcttcctgcg gtgtctcaat   240

agatgatcca ttttccatat attttgaaag ggaagtcatg tcaacataag aagcaaattt   300

aatagttact ttatatttt tttccagttc attatcaggg tttataatag aaacctctcc   360

ttgaagaaca tctttangaa ggggtgaaga agcatataca ttctttactc catcaaatgc   420

tgggt   425

<210> 367
<211> 371
<212> DNA
<213> Ctenocephalides felis

<400> 367
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa aaaaaaaaa   360

aaaaaaaaaa a   371

<210> 368
<211> 269
<212> DNA
<213> Ctenocephalides felis

<400> 368
cgcagatgat attttgatg agcatttaca aaacttcacc aggcagcaaa atagtgctaa   60

tagactgcaa aaggaattta ataactacat aagatgtatt agagctgtgc aaagtgcttc   120

caagtctta atggaagcag tatctgaagt ctacgaaagc ccatggagtg ggcacgatgt   180

tttgctacac cagacaaatg ctttggaaat gttgtggcaa gacttctctc ataaactggg   240

tgaccaagtt ttgataccac ttaacacgt   269


```
<210>    369
<211>    310
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (1)..(1)
<223>    n = unknown

<400>    369
ncataattat aagttcaaat tattgaacta tttttatttt ggctttcctg cataaaaata      60

taaataattt taagtttaag gtgataatct ttcgtaaacc catccattat ctgcttcatg     120

tgttaaattc aaatctattt gttcatttgg aagcaacttt cggaattttta ttctatcatg    180

taagcgatca ctttggcctt gccagaactc aatagatcga ggtattacta tatacccgcc     240

ccagtatgga cattcaatcg gttgatcatc tttgtatttt tctttcagtt cttgttcttt     300

atttataagt                                                            310


<210>    370
<211>    491
<212>    DNA
<213>    Ctenocephalides felis

<400>    370
tttttttttt tttttttttt tttttttttcg taaagcttct atatttatat attttaaata      60

atcagaaatt actatagtta atgacatttt gtttgtgctc cttacataaa atacaatttt     120

atacatttta atttttatac atatttttta tatttaattg cacagatcat ttgtgtatttt    180

attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattgtt     240

ttcctggttt aagccttact tagcaatctc acttttgcat tcttcgccgg gtggcgtggg     300

tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat aatgttttat     360

ttgccatttg ttgaaacatt gataatattt tttacaatct cttcgatcgg aaaaaacgtt     420

ttcacttttg catgcagttc tgcacgagaa agatttgggc aaaccattcg ttgacgtcgt     480

ctcacatttc a                                                          491


<210>    371
<211>    212
<212>    DNA
<213>    Ctenocephalides felis
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<220>
<221> misc_feature
<222> (9)..(9)
<223> n = unknown

<220>
<221> misc_feature
<222> (61)..(61)
<223> n = unknown

<220>
<221> misc_feature
<222> (184)..(184)
<223> n = unknown

<400> 371
aatatcaant tccacaatcg tataccccac taaacgtgaa tgcaatgagt tgtccactgg   60

ngctatttta ttagcaagat atccttccag cattgatcat aaaatttaca gcgccttttc   120

taccgttttt tgtccacgtc aggatttttaa tatgttgcct ggctgctgca gcaggtttta   180

tacnacttgc tttctctcaa gggaactggt ta   212

<210> 372
<211> 588
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (409)..(409)
<223> n = unknown

<220>
<221> misc_feature
<222> (421)..(421)
<223> n = unknown

<400> 372
ggaagcacct taggctgtgc aggacatgta actgtatagc attttgtgcc cagagccata   60

ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattgggtt   120

cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat   180

ctcgatggtg acggacattt gaaaccttgt actttgcaga ctgtactttc tttagtggtg   240

cactgtagat atccactttg atcagcgcac acttgatctg ggctacagga ttccttaacc   300

ggatctgctc ctatttccgg acaatactgc atttcgggtg aactgcacga attcacgcaa   360

ctaaatttta ctttttttaca tttttgctcg ggtttcggta caggtgtang ttcaggagta   420

ngtactactc ctggtgtggg ctcatccaat gatgcaatac tcctttattt actgttaaag   480

gcgttccgtc gacattaaac tcaccatcat aagcggtaac gacagataac gccacaaaac   540

taataaaaac caatgtgata taaaacattc taataaatat gttaccag   588

<210>   373
<211>   442
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (243)..(243)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (295)..(295)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (341)..(341)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (402)..(402)
<223>   n = unknown

<400>   373
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga atgaatgcaa aagtgggatt   240

gcnaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcanattat   300

cataaagtag tcaattaata taataaatac acaaatgatc ngtgcaatta aatataaaaa   360

atatgtataa aaattaaaat gtataaaatt gtattttatg tnaggagcac aaacaaaatg   420

tcattaacta tagtaattct ga   442

<210>   374
<211>   530
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

<220>
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<223>  n = unknown

<400>  374
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agaaattact atagttaatg acattttgtt tgtgctcctt acataaaata caattttata     120

cattttaatt tttatacata ttttttatat ttaattgcac agatcatttg tgtatttatt     180

atantaattg actactttat gacaatttga atcctaatta gtctattcaa gattgttttc     240

ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg gcgtgggtat     300

gcatcgcaac tccgttttat caaagtgcaa ngccatttgg acaatcataa tgttttattt     360

gccatttgtt gttaaccaag aaacattgat aatatgtttt tacaatctct tcgatcggaa     420

aaaacgtttt cacttttgca tgcagtnctg cacggagaag atttgggcac acattcgtng     480

ncgtcgtctt cacattcagt agctcggccg cgacacgcta agccgattta               530


<210>  375
<211>  387
<212>  DNA
<213>  Ctenocephalides felis

<400>  375
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta     120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat     180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt     240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca     300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt     360

tattaagatt cgatgtaaga tatatgt                                         387
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<210> 376
<211> 417
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (160)..(160)
<223> n = unknown

<400> 376

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caatcctata atgccatttt catcaaaggt attgtattcg taataaccag cccatgcact       120

tttaacttta attgcttcaa aacatggaac acgatgtgcn aaatgtggcc aaacgttttg       180

ttcaaaataa tccatatcta catctaagtt atcgactggc ggttctttgt caggatctgg       240

tgaacgacca cagatatatc tgccacctaa tccatctctt ctaaaatatg tatttgttgg       300

atcgattgcc agaggtgtat ttaaacctgg aggagaatga tgttgacact caaagctata       360

cacgtatctt tttcttggtt ccacacgtaa aggaattgac agcaatcctt ctccagt         417
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<210> 377
<211> 229
<212> DNA
<213> Ctenocephalides felis

<400> 377

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cgtggttttg gagtatctgt tcaaggtatc atcatctacc gtgcagcata ctttggattc        60

tatgacaccg ctcgtggaat gttgccagac cccaagaaca ccccattagt tatcagctgg       120

gccattgcac aagccgtcac aactgttgct ggtattgtgt catatccatt cgacactgtc       180

cgtaggcgta tgatgatgca gtctggacgt gcaaagtctg aaatgttgt                   229
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<210> 378
<211> 356
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (1)..(1)
<223> n = unknown

<220>
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<223> n = unknown

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<220>
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<223>  n = unknown

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<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<222>  (243)..(243)
<223>  n = unknown

<220>
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<222>  (247)..(247)
<223>  n = unknown

<400>  378
nagganactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat      60

tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta     120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt antaatgtat     180

agattttgaa taataacata naanttatac tatttttttg atgactctaa taaaaaanat     240

gtntaantgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc     300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatgg        356


<210>  379
<211>  157
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (91)..(91)
<223>  n = unknown

<400>  379
tgtcaagcaa actgaatttg atctgaggta aaactgaatt caagacataa aagcatcacc      60
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aagtatgtat agataaaaga taaagattgt naaaagtttg agaaacactg tttggatggt    120

gaaacaaaat atagaaaaca caaaagttaa aaaatat                             157
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<210>   380
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   .(486)..(486)
<223>   n = unknown

<400>   380
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tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca     60

aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa    120

agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc    180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg    240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca    300

aatacataat ctaataaacc agcaagtgaa cttttatgca ttttcatttc tgcatcaata    360

acttatcaca atttttcaat tcaataaaac tgtagtttgt gttagaacta atcattaaaa    420

taatttaggc gtaacttttg attatgttgt aaaaaagcat aaacttgttt gatagaaaca    480

ttacanaatt actattta                                                  498
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<210>   381
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222>   (453)..(453)
<223>   n = unknown

<400>   381
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gcataagaat cattccactg gtccacccga tggactgcat catggcaatg tgtgctctat    120

cttcacttct ggatatttcc atcgcaatta tcaaagggct ttgaaaaaca gatgtagatg    180

ttagtgaacc aagaaaagcc gctgttataa aaacaataaa ccaactggaa gtaaatgctg    240

taattagtct tccggtgacg attgtgatga gacttaagta aaatactggt cttcttccaa    300

tcctatctcc taattgtcca aaaataaatg tgcctatgac ttcgcccgca cgtccaatag    360
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caaatgtatt agttacatag agttctctat cacaaaccca gtcttgatct gacggagccg   420

ttgataaata ccatgttctg tcatattcat aancatgctg acaaggtatt atttgacttt   480

caatctattt gtctcctc   498

<210> 382
<211> 339
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (317)..(317)
<223> n = unknown

<400> 382
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aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt   120

acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt   180

accatctttg cagaataagt atcttggtgc agtctttcgg atctgggctg atatcctaca   240

accgcgcatg tagtttctgc cgtcttacag ttttcccaaa ggttttgatg accacatatc   300

atctacacaa aatggancat cggaatttga gtctctgca   339

<210> 383
<211> 308
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (218)..(218)
<223> n = unknown

<220>
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<222> (242)..(242)
<223> n = unknown

<220>
<221> misc_feature
<222> (249)..(249)
<223> n = unknown

<400> 383
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg    180

ataaaacgga gttgcgatgc atacccacgc cacccggnga agaatgcaaa agtgagattg    240

cnaagtaang cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaacttatc    300

ataaagta                                                             308
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<210>   384
<211>   173
<212>   DNA
<213>   Ctenocephalides felis

<400>   384
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac     60

ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag    120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt          173
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<210>   385
<211>   390
<212>   DNA
<213>   Ctenocephalides felis

<400>   385
cgattttttt gtttaatttt ttgcaaaaac aaaagtcagc cactttcggc gtgcatcatt     60

tataaatgat tcgacaaata accaaattcc tcgaagacgt ctccgcgagt gcgttaaagt    120

tccaacggga attctacaag gcaaaatcga aagagttcag gatgctcctt cagcagatct    180

cgaggagcag gcaggggacg attttttaaga aacaaccggc tctgtggtgt ctggtcggat    240

gtctagtagg tggtttttagt ctggccactc tcagcctggc ccgcaccgtc aagaatcacc    300

cggacgtcta cctgatccgc agccactcgg gcgaggagcg ctactggcgc cgatacacca    360

aactaatcga cgtcagcgga tcgcgcaagt                                    390
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<210>   386
<211>   324
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<223>   n = unknown

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<222>   (304)..(304)
<223>   n = unknown
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<400> 386
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aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa   120

agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc   180

agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg   240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca   300

natncataat ctaataaacc atca   324

<210>   387
<211>   384
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (254)..(254)
<223>   n = unknown

<400>   387
taaaaaatga agatctgac caagtttttg aaccttcgga aactgttatg gcctattttg   60

atgacatatt acaaatgaa gataccgaat cttccacgtt taaatcgtct cctgaacttc   120

gaaaaagctc ttcaaaaagc aataactcat ccattaaatc aattagaagt agttcaatat   180

cttccactga atctagctta ctacgtgacg gagcgctgaa agattttccc gatacctgtg   240

aaactaaaaa tganatcgat atcaaaaatg aagaattcaa agacaacgat gataaagctc   300

actgtcatga caatattcaa atagttaatc ctgcaggact ggtgaattct caatgtgatg   360

attgttataa acccgacact gata   384

<210>   388
<211>   118
<212>   DNA
<213>   Ctenocephalides felis

<400>   388
catcactgag aagaactctt cggctacgga atatcttcat tggaggcgcg ttgttggtgc   60

acgcagcatt aacaaggttc ttgcaattca gcataatgac cagaagaaaa atacaggt   118

<210>   389
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

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<221> misc_feature
<222> (357)..(357)
<223> n = unknown

<220>
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<222> (363)..(363)
<223> n = unknown

<400> 389
aacagttgca tgaactttgc ccttcaacgt cattcctaag tatggtgttt ctttattctt   60

gtgttggatt atgtctttag tgaccttaaa ttcttcctcg ggatcccaaa ttactaaatc   120

agcatccaag ccttctttga tttgtccttt tatgccatcc agtccagtta atcgagcggc   180

cgcccgggca ggtacttgag ttccccatcc aatcaatgtt actgcatcac ctttcttgat   240

aatatcagct tttcccaaag gaactgtgaa atcatcgaca ggaacttctt ctacagctgc   300

tctgtaaagc gtttttggtt ccagtagcaa acatggatct ttttctctga tcatggntaa   360

tanaagacct ttggccatat ttggacctct tggtatagca atcttcaatc ctgggagtat   420

gtgcaaaata tgcctcaagg ctttggggaa tgataacaag ccccgtgtcc gactgccata   480

caaggtgctc gcactgtt   498

<210> 390
<211> 405
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<213> Ctenocephalides felis

<220>
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<222> (393)..(393)
<223> n = unknown

<220>
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<222> (399)..(399)
<223> n = unknown

<400> 390
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attttgtggt ttgtggtcca tattttaatt tgctacttaa catattctat gattatggat   120

ttattcaaaa ttaatttatc caaacagctt ataaaattgt atttatcttt tatccattca   180

acaataaaat gttaacaaaa aaatacacat agaaatcttt tcagacatgg ccatttaaac   240

attttttcat taaggttatc aaaaatatat caggcatggc catttataca ttttttttat   300

tagagtcatc aaaaaaatag tataatttcc atgttattat tcaaaatcta tacattaata   360

aggatgttag aagtttgttc ggttaatttt cangcagang ttgca   405

<210> 391
<211> 208
<212> DNA
<213> Ctenocephalides felis

<220>
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<223> n = unknown

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<223> n = unknown

<220>
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<400> 391
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcanaag tgaaancgtt ttttccgatc naaganattg taaaacatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataanac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccac   208

<210> 392
<211> 359
<212> DNA
<213> Ctenocephalides felis

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<222> (12)..(12)
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<223> n = unknown

<400> 392
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gcatgcanaa gtgaaaacgt tttttccgat cgaagagatt gtaaaaaata ttatcaatgt   120

ttcntggtta acaacaaatg gcaaataaaa cattatgntt gtccaaatgg cttgcacttt   180

ganaaaacgg agttgcgatg catacccacg ccacccggcg aagaatgcaa aagtgagatt   240

gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat   300

cataaagtng tcaattaata taataaatac acaantgatc tgtgcaatta aatatanaa   359

<210> 393
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<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (370)..(370)
<223> n = unknown

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<222> (373)..(373)
<223> n = unknown

<400> 393

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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa ataaaaaaaa     360

aaaaaaaaan aanaaaaaaa                                                  380
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<210> 394
<211> 269
<212> DNA
<213> Ctenocephalides felis

<400> 394

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cgcagatgat attttttgatg agcatttaca aaacttcacc aggcagcaaa atagtgctaa      60

tagactgcaa aaggaattta ataactacat aagatgtatt agagctgtgc aaagtgcttc     120

caagtcttta atggaagcag tatctgaagt ctacgaaagc ccatggagtg ggcacgatgt     180

tttgctacac cagacaaatg ctttggaaat gttgtggcaa gacttctctc ataaactggg     240

tgaccaagtt ttgataccac ttaacacgt                                       269
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<210> 395
<211> 173
<212> DNA
<213> Ctenocephalides felis

<400> 395

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tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac      60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc     120

acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt           173
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<210> 396
<211> 237
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (19)..(19)
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<220>

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<222>  (45)..(45)
<223>  n = unknown

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<400>  396
ctactgctgc accgggaana ccccctgata ctggcgtatc acaanattga gaattatgtt      60

ggntcaccaa ttgtttaact tctttggcaa ctgctggatc gattgtgctg gaatctaaga     120

acaatgtatc tttttggca gatgccacca ttcctttgta acagtctaat actatggcgt     180

tgtttggcaa cattgtgacc acaaagtcgg attttttggc aacttcggca gccgagg       237


<210>  397
<211>  229
<212>  DNA
<213>  Ctenocephalides felis

<400>  397
cgtggttttg gagtatctgt tcaaggtatc atcatctacc gtgcagcata ctttggattc      60

tatgacaccg ctcgtggaat gttgccagac cccaagaaca ccccattagt tatcagctgg     120

gccattgcac aagccgtcac aactgttgct ggtattgtgt catatccatt cgacactgtc     180

cgtaggcgta tgatgatgca gtctggacgt gcaaagtctg aaatgttgt              229


<210>  398
<211>  250
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
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<223>  n = unknown

<220>
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<222>  (146)..(146)
<223>  n = unknown

<220>
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<222>  (167)..(167)
<223>  n = unknown

<400>  398
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aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttctttt     120
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acacatattt ttanaatgat catatncata gttaggtggg cattcgnaga acctgacctt    180

taccatcttt gcagaataag tatcttgtgc agtctttcgg atctggctga tatcctacaa    240

ccgcgcatgt                                                           250


<210>  399
<211>  289
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  n = unknown

<400>  399
aantccgtaa agactgtgcc gactgcttaa aacttactga taactaaatt agtttaagaa     60

ttgtataaca aactgtaaac ttcctaaaaa tgtctagtga tatattattt gtggtctaat    120

ggttctagct tatgtagctt tttgacaaat aaaaattgtt tataaaaga aaaaaaaaaa     180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa               289


<210>  400
<211>  158
<212>  DNA
<213>  Ctenocephalides felis

<400>  400
ctgcatatca atcagactgt ttaggtgcaa gcgccacttc ttccccatcc ataccatcct     60

taccatcttt cccaaccttg ccaacatctt ccccaacagc aggatttcct tttggccgaa    120

aatctcttga tatgcaaaca aaaactggaa ctaaatgt                           158


<210>  401
<211>  173
<212>  DNA
<213>  Ctenocephalides felis

<400>  401
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ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag    120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt          173


<210>  402
<211>  475
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<212>   DNA
<213>   Ctenocephalides felis


<220>
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<223>   n = unknown

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<223>   n = unknown

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<222>   (415)..(415)
<223>   n = unknown

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<222>   (464)..(464)
<223>   n = unknown

<400>   402
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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacanatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcana agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtatana aattaaaatg tataaaattg tattttatgt aaggagcaca gacanaatgt     420

cattaactat agtatttctg attacttaaa atatataaat atanaagctt tatga         475


<210>   403
<211>   369
<212>   DNA
<213>   Ctenocephalides felis

<400>   403
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180
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```
ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg      240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

aaaaaaaaa                                                              369
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<210>    404
<211>    209
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<213>    Ctenocephalides felis


<220>
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<222>    (6)..(6)
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<220>
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taaaagaatt gggatttgtg catttcatga cggtgcaatc agcttctgac gatttctttt      120

tacacatatt tttagaatga tcatatacat agttaggtgg gcattcgaaa acctgacctt      180

tancatcttt gcagaataag tatcttgtg                                        209
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<210>    405
<211>    138
<212>    DNA
<213>    Ctenocephalides felis

<400>    405
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag      60

atcatgtaag aattattggt cgaacagacc aaattttaaa acttctgcat tttaaaatta      120

tcttaatcca acatcgag                                                    138
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<210>    406
<211>    136
<212>    DNA
<213>    Ctenocephalides felis

<400>    406
tccagcatca ccaacgattc caatcgcaaa acccgccgcc aagccggaaa atcctacggc      60

caaaccagcg ccgagatgta tgaagccctt ataaagtgag taggtttttg gttcctccag      120

agcacccgca atcagt                                                      136
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<211>  200
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

<400>  407
tttttttttnt tttttttttt tttttttttca cttgcaggtt tattagatta ngtcgttgtt    60

catcnataaa actaatantt angcaaaaat atttcaagtt acaatttcac acgatgcaat   120

tttccacaac atcattaatt tcttccaatc tggattccca tttantcaaa ttgtctgaan   180

aacattttcc caaatctaaa                                               200


<210>  408
<211>  215
<212>  DNA
<213>  Ctenocephalides felis

<400>  408
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aaaacccaaa aggcattgtc catgcttcct gcaagcaaag cacattaaca ttattatcat      60

gagcagcttg tataatattc ctagcctttc catacaaagc ctctctcatt tcagccacag     120

gagtccacgt gttgagtcct cgggtagtg caaattgcac tgctgcaatt ctaacaactc     180

tcgaggctct tgtagattca tggcgagcta gaggt                                215
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<210> 409
<211> 159
<212> DNA
<213> Ctenocephalides felis

<400> 409

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ctgcatatca atcaagactg tttaggtgca agcgccactt cttccccatc cataccatcc      60

ttaccatctt tcccaacctt gccaacatct tccccaacag caggatttcc ttttggccga     120

aaatctcttg atatgcaaac aaaaactgga actaaatgt                            159
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<210> 410
<211> 98
<212> DNA
<213> Ctenocephalides felis

<220>
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<223> n = unknown

<220>
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<223> n = unknown

<400> 410

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ctgagtttat atttcaacag cgttcngcag cattgcgt                             98
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<210> 411
<211> 367
<212> DNA
<213> Ctenocephalides felis

<220>
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<223> n = unknown

<400> 411

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attttttcgta tctggaggaa gtgcaacaat atatgcatat ttaggagaat ttcataatcc    120
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```
taggcatcgc agcagggcta ttatgggagc gtcaagcatc ttcggatttg cgtgtcttgc     180

attaccgacg gttgcatggt taattataaa tcagaaatgg tcattctata ttgacttttt     240

gggatataca tacaagccct ggaggttgta tatggttgca tgtggtttgc catcactgct     300

ttgttgtttt gctttgtgga aattaccana aagtcccaaa tttttgatga atcagggaag     360

aaacgaa                                                               367
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<210>    412
<211>    324
<212>    DNA
<213>    Ctenocephalides felis


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<223>    n = unknown

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<222>    (244)..(244)
<223>    n = unknown

<220>
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<222>    (260)..(260)
<223>    n = unknown

<220>
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<222>    (293)..(293)
<223>    n = unknown

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tgaaatgtga agangacgtc aacgaatggt ttggcccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg canataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctangtaagg cttaaaccan gaaaacaatc ttgaatagac taattaggat tcnaattatc     300

ataaagtagt caattaatat aata                                            324
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<210>    413
<211>    275
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<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (4)..(4)
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<220>
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<222> (116)..(116)
<223> n = unknown

<220>
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<222> (182)..(182)
<223> n = unknown

<220>
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<222> (230)..(230)
<223> n = unknown

<400> 413
tganatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg tgaaaaatat tatcantgtt   120

tcttggctaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

anaaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcatn aagtgagatt   240

gctaagtaag gcttaaacca ggaaaacaat cttga   275

<210> 414
<211> 247
<212> DNA
<213> Ctenocephalides felis

<400> 414
taaaccggta tgactatttt cttcataaat aatgcaatcg ggattatcct tttcaatatc   60

tattacttta actgctgtat catcagcaca aacagctaga agttttgtgc taaaaatatg   120

aacaataatt aacaatatga acaaagaaat taagaaaaaa acatgatcaa attgtataga   180

acaatcttgt aaataattat gaaatataga actatttaaa aaaaaaaaaa aaaaaaaaaa   240

aaaaaac   247

<210> 415
<211> 296
<212> DNA
<213> Ctenocephalides felis

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<221>  misc_feature
<222>  (90)..(90)
<223>  n = unknown

<220>
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<222>  (219)..(219)
<223>  n = unknown

<220>
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<222>  (226)..(226)
<223>  n = unknown

<400>  415
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atttgtatgg ctacatatgc ttatgttcan aaggttttat tagtcttttt ctatacaatt   120

tcaatcaaat atttcatatt atagttttc atttatagga tattttcatt tatttaacat   180

tattatggtc aatatattgt taatgtatca tgggtatanc gactanagtg acaaataatt   240

tgaatgaaaa ctggacatta ccaatcgaat ccaaatattt tatgtcacgg gaaata       296


<210>  416
<211>  210
<212>  DNA
<213>  Ctenocephalides felis

<400>  416
ggaagcacct taggctgtgc aggacatgta actgtatagc attttgtgcc cagagccata    60

ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattgggtt   120

cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat   180

ctcgatggtg acggacattt gaaaccttgt                                     210


<210>  417
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<212>  DNA
<213>  Ctenocephalides felis


<220>
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<223>  n = unknown

<400>  417
atgaatccaa ttcggtaagg agcaatcatt tcatcatttg aatgcccatc gtgatgctgg    60

gtcttccata cagaattcac agttgtattt ttaccctcag acaaccttc agtcgacata   120

tttagataag ggaatttcaa attcccttga gcaatattaa tttgggctcc acttaccatc   180
```

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caactgacca ggattagact tgcagctgct cccaccaaaa ctcccttagt gttggcttta      240

gggaacaaaa ttcccaatgt aaacattccc aaaagtgttc ctgcagtgac tccagtaaca      300

ctgatgacca aatgcatgac acttcctaat tgttctacta cgaagacaag cccaaggcaa      360

atgcctccaa ttactactac agtcaacttc atgatgttac tggcagtctt ctcagtggta      420

ttaaccggta accattcctt aataaanatc ctcgtaaagt gt                        462
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<210>    418
<211>    378
<212>    DNA
<213>    Ctenocephalides felis

<400>    418
aatctgtaat accaggaatg ttaaacaaaa aagtaataac aaagatattg tatttttaaa       60

taatattgat caccttgcat tgtaataata ctaaacaatc tatttacaat taaaaacact      120

ccttcacaaa tttaattctc cttcttgatg cgtgtggatg tcattctgta aataatggag      180

tcccttccgg ggtccattgt ggagattgag atacagatag ctagtagcga gaagaaaag      240

gctactccga accataagat gatgttaaaa accaccgggt aagagtcgtt gtattcttta      300

gctaggttga aatcgggttc ttttggagca tcatctgctt gccttgtttt acgtgttagg      360

acgtcattgg aggttagt                                                    378
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<210>    419
<211>    288
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (4)..(4)
<223>    n = unknown

<220>
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<222>    (28)..(28)
<223>    n = unknown

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<223> n = unknown

<220>
<221> misc_feature
<222> (245)..(245)
<223> n = unknown

<220>
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<222> (252)..(252)
<223> n = unknown

<400> 419
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atgaaaatga ntcagtagca acttctgaat tttctttgta attgataana ctttctcaaa     120

gtataattgc atttcgcaac acacgacgga aatatggtta tggtccatat gaagcaatgc     180

tcgttcttct atccacttgc ttcngataaa tgttcggtat aaagaatgca atcactccac     240

atgcnatcag anatgttcct gatattaaaa atgttaaatc gcaattat                  288


<210> 420
<211> 374
<212> DNA
<213> Ctenocephalides felis


<220>
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<222> (299)..(299)
<223> n = unknown

<400> 420
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gaatgagatt ttttgggtaa ccattttcaa ttagagttat ttttactagg gataaatttt     120

gtggatggaa agtttggtga gacaacaaaa tagcatggtc tgtaagggaa ataatagtgt     180

ttatcttata gtttctggga cagtatgagg aatagtgtaa gtatctaccc gaccatgtcg     240

tttttctata ccaatttgtt cgaataaagt tattagtgtt gtaaacggat acatctaana     300

aattaagtct gttgttattt tgtagttcat gtgtgaaaat tatattattg ttaaaattat     360

tgaagagatc tagt                                                       374


<210> 421
<211> 396
<212> DNA
<213> Ctenocephalides felis
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<220>
<221>  misc_feature
<222>  (142)..(142)
<223>  n = unknown

<220>
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<220>
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<223>  n = unknown

<220>
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<222>  (378)..(378)
<223>  n = unknown

<400>  421
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gtaattgatc aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact     120

tcattgagga caactgatat anaatattgc ccatagcatc tctaatggta ttccaggtaa     180

tcttgttttc actttgtgca gtagattcaa ctgcgtattt tgccatatca tagaaagcaa     240

taatgttacg taacatacca actgttttat anaaggggca gaaacgatca tatgatgagt     300

agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt     360

cangtttccg ccaaggangc tttaccaacc aattgt                               396


<210>  422
<211>  381
<212>  DNA
<213>  Ctenocephalides felis

<400>  422
atgcaatgag tgtttttttc atgtgctcac ccataaacag cggagcagtt tgatcccata      60

cagttcttaa aaatgatttc tttgttttat ttgtattttc accatccact cctggatatt     120

catctaagat tgatgatacg gggaattcac tttctggttt accagtatta attctataca     180

ttttggcaat aatttgacga gcttcttcgt ttcttccctg attcatcaaa aatttgggac     240

tttctggtaa tttccacaaa gcaaagacaa caaagcagtg atggcaaacc acatgcaacc     300

atatacaacc tccagggctt gtatgtatat cccaaaaagt caatatagaa tgaccatttc     360

tgatttataa ttaaccatgc a                                               381


<210>  423
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<211> 370
<212> DNA
<213> Ctenocephalides felis

<400> 423
ttctgataac aaaaggccct gtggataaag tctccatccc tgttccgtta caatgtgtac   60

atttgacagg ctttgtgcca ggctcacacc tggaacctct gcatttctga caagtatcta   120

ctatgttgac attaatatct ttattaactc ctcgtgcagc ttgagagaat gttagtttca   180

tagatacttc ttttgcacca ccaaatccaa aactggattc agcaaagtca tcaaaacctc   240

cagttttaaa tcctgcatca ccaaatattt tgtgaaatag ttcttcaggg tcgattgtcg   300

attgatactt ccaactctgt gagaagcctt gagggcctgc tccccccatg ccgcccatct   360

gttcagaggt   370

<210> 424
<211> 166
<212> DNA
<213> Ctenocephalides felis

<400> 424
atagctgatc ctgacatacg ttcagctgtt acgacaggac cagaaacggc gtatacatag   60

ccgaattttc cctctcgctc ttcatccgag attttattaa gttcttgagg cattttggct   120

cctttggtta tttgtcgttt taaaacacac tctgatcctg ttcgaa   166

<210> 425
<211> 427
<212> DNA
<213> Ctenocephalides felis

<400> 425
aggaagttcc taccacaatt caaatggaaa tgtatacgaa gtaaccgaca tagttttaca   60

tccgaaattt aatataagga cctttgacta tgatgtcgct ctggttaaag ttaaaaatcc   120

tattaaactt acagtgtgta atagtcgacc tgtaaattta gctaatgagc aatatgagac   180

tcctgtagga tctttagttt atgtaacagg atggggagct aaccagaccg aaggaaacga   240

ttcttcagaa ttacttggtg cttggattcc tctgatagat tcttcagcat gtcaaagtaa   300

ttatgcagaa ccaggaaaac cagacagaat cactgataga atgttatgtg ctggttctgc   360

aaaaggtgac ggttttgtc acggtgatta tggtggtcca ttagttgaca aaaacaggaa   420

acttata   427

<210> 426
<211> 498
<212> DNA

<213> Ctenocephalides felis

<400> 426
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gccaccattg aagttcttaa taaacagaag aggaaaactt tgtgccacac tgatggcgaa   120

ggagttgaat gcgaaacaga agaagggagc atcgcacctc aaataatact atttgttgcc   180

caattaattt ctggagtcgg tggatcttta tactacactt taggtgtatc ctatatggac   240

gataacacca aaaaatctaa aacaccagca ctgatgagtt tttcttattt tcttcgtatg   300

ctcggacctg caaccggtta tgccttggct agcgtctgtc taaagttcta catttcgcca   360

acgttgacgc caacaattga taataatgat cctagatggt taggagcatg gtggttaggt   420

tggttgatac taggatcaac tttaatattt tttgcaacgt tgattggatt gtttcctaaa   480

atctgccaag agctgcaa   498

<210> 427
<211> 191
<212> DNA
<213> Ctenocephalides felis

<400> 427
caagttgcta cattcaaagg attacaaaca gaaaatgtag atgcaagcca agagtagatt   60

gtaattattt cataaaataa attaaaatcg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa   120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa   180

aaaaaaaaaa a   191

<210> 428
<211> 173
<212> DNA
<213> Ctenocephalides felis

<400> 428
tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac   60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc   120

acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt   173

<210> 429
<211> 173
<212> DNA
<213> Ctenocephalides felis

<400> 429
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ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag   120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt   173

<210>   430
<211>   138
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222>   (92)..(92)
<223>   n = unknown

<400>   430
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag   60

atcatgtaag aattattggt cgaacagacc anattttaaa acttctgcat tttaaaatta   120

tcttaatcca acatcgag   138

<210>   431
<211>   481
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222>   (460)..(460)
<223>   n = unknown

<400>   431
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt   420

cattaactat agtaatttct gattatttaa aatatataan tatagaagct ttatgaaatt   480

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<210>   432
<211>   368
<212>   DNA
<213>   Ctenocephalides felis

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<222>  (210)..(210)
<223>  n = unknown

<220>
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<222>  (238)..(238)
<223>  n = unknown

<400>  432
gtattcaatg gtatgaattg cttggtgaat gaaaatttca ctcatgggtt cttcttcntg      60

ttctccatga gctgcttttg gcggtgcctt tggtgcctct ggcataccgt tttcttggct     120

ggagacaacg tctgaagtca tttccattcc ttggtttaaa tcaccatttg atttagcana     180

atgaggagct tcatctttat ttttcttggn tgccatcaaa tataatggtt tgcctaanag     240

catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttgtcc     300

ttcaaacata aattcatcgc attgttctgc tggagatcct tgcttgaata acatcatgtt     360

aatgaaca                                                              368


<210>  433
<211>  119
<212>  DNA
<213>  Ctenocephalides felis

<400>  433
catcaccgaa gaagaactct tcggctacgg aatatcttca ttggaggcgc gttgttggtg      60

cacgcagcat taacaaggtt cttgcaattc agcataatga ccagaagaaa aatacaggt      119


<210>  434
<211>  364
<212>  DNA
<213>  Ctenocephalides felis

<400>  434
tgataaattg cctgcaagaa tgagtttcag ggaacgaaaa gaatcggcca aatgcatgca      60

aaaggttgca ttaaatatac aactagcagc agccagagtt tcaactgatg ttggcattaa     120

agtaggagaa gccctcagga atgtcgtgga acttcgttta gatttgggaa aatgttcttc     180
```

```
agacaatttg aataaatggg aatccagatt ggaagaaatt aatgatgttg tggaaaattg      240

catcgtgtga aattgtaact tgaaataatt tttcttaact attagtttta tagatgaaca      300

aatacataat ctaataaacc agcaagtgaa cgtaaaaaaa aaaaaaaaaa aaaaaaaaaa      360

aaaa                                                                   364
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```
<210>  435
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (219)..(219)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (418)..(418)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (436)..(436)
<223>  n = unknown

<400>  435
tttttttttt tttttttttt ttttaatttc ataaagcttc tatatttata tattttaaat      60

aatcagaaat tactatagtt aatgacattt tgtttgtgct ccttacataa aatacaattt      120

tatacatttt aatttttata catatttttt atatttaatt gcacagatca tttgtgtatt      180

tattatatta attgactact ttatgataat ttgaatccna attagtctat tcaagattgt      240

tttcctggtt taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg      300

gtatgcatcg caactccgtt ttatcaaagt gcaagccatt tggacaatca taatgtttta      360

tttgccattt gttgttaacc aagaaacatt gataatattt tttacaatct cttcgatngg      420

gaaaaacgtt ttcacntttg catgcagttc tgcacgagaa agatttgggt caaacaatcg      480

ttgacgtcgt ctcacattca                                                  500
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```
<210>  436
<211>  221
<212>  DNA
<213>  Ctenocephalides felis

<400>  436
tatataatct gattctcgat ttgtatcttc ataactgatt ctcagatatc cattaccgga      60
```

```
atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat    120

gacatgtctg aattttattt taccatcaac taaagattcc atgtgagctc ttgcgcaagt    180

tccatctcgt tcaaaatgat tttggtatct atattgttcg t                       221
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```
<210>    437
<211>    498
<212>    DNA
<213>    Ctenocephalides felis


<220>
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<222>    (299)..(299)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (327)..(327)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (488)..(488)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (495)..(495)
<223>    n = unknown

<400>    437
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aataaatcat ggtctgaaga gacaaataag attgaaagtc aaataatacc ttgtcagcat     60

ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactgggtt    120

tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata    180

ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta    240

agtctcatca caatcgtcac cggaagacta attacagcat ttacttccag ttggtttant    300

gttttttataa cagcggcttt tcttggntca ctaacatcta catctgtttt tcaaagccct    360

ttgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag    420

tccatcgggt ggaccagtgg aatgattcct aagccgttac tgatgtgggc gacgcgagat    480

tgggttancc ttgcnttg                                                  498
```

```
<210>    438
<211>    95
<212>    DNA
<213>    Ctenocephalides felis

<400>    438
```

```
tacgagtgca cattaaacgc tcaaggtgta ttcgacgtgg cccgatatgc ttgtgcagct    60

gagttatatt tcaacagcgt tctgcagcag tgcgt                               95
```

```
<210>   439
<211>   486
<212>   DNA
<213>   Ctenocephalides felis

<400>   439
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg    60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggaacaca aacaaaatgt   420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct tatgaaaaaa   480

aaaaaa                                                             486
```

```
<210>   440
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   440
ccttactgat cctcgatttg attggaaaat tgatattgat aataataaac caataaatat    60

accaaaaccc aatctagtca accatataac attcaacatc ctccatttgt ccgatataca   120

ttatgatcca agtatgaag aaggaaaaaa tgccttatgt ggacaatcag cctgctgcag   180

gaatgatcaa gggcctcctg atcataagga ggatggtgca ggaaggtggg gcgactacag   240

gggatgcgat acgcccaaga aggcgatgga agatgctatt cagcatataa aatataaaca   300

ccgggatatc gattttgctt attttactgg agatatgata gatcatgcca tgtgggaaac   360

atcgaccgaa agcaatataa aaacaatgaa agaagtgtta attgctattt atccactagc   420

tcctaaatta tatccagttt tgggtaatca tgaatcacat cccgccaatt tattttctca   480

acaaatgtta ctgatgcg                                                498
```

```
<210>   441
<211>   269
<212>   DNA
<213>   Ctenocephalides felis
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<400> 441
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa   60

tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg   120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct   180

attatgggaa atccaatcgc atatccagct tccaacatta agaatgcat aaatgcctgt   240

tcttccattg tgtctttaca ctcggtcgt   269

<210>   442
<211>   386
<212>   DNA
<213>   Ctenocephalides felis

<400>   442
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt   60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta   120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat   180

cagaagcaag tggatagagg aacgagcatt gcttcatatg gaccataacc atatttccgt   240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca   300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt   360

tattagattc gatgtaagat atatgt   386

<210>   443
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (488)..(488)
<223>   n = unknown

<400>   443
ttttttttttt ttttttttttt ttttttttttt tttgatttca taaagcttct atatttatat   60

atttttaaata atcagaaatt actatagtta atgacatttt gtttgtgctc cttacataaa   120

atacaatttt atacatttta atttttatac atatttttta tatttaattg cacagatcat   180

ttgtgtattt attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt   240

caagattgtt ttcctggttt aagccttact tagcaatctc acttttgcat tcttcgccgg   300

gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat   360

aatgttttat ttgccatttg ttgttaacca agaaacattg ataatatttt ttacaatctc   420

ttcgatcgga aaaaacgttt tcacttttgc atgcagttct gcacgagaaa gatttggggt   480

caaaccantc gttgacgtcg   500

<210>   444
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (210)..(210)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (222)..(222)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (290)..(290)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (354)..(354)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (374)..(374)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (427)..(427)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (464)..(464)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (468)..(468)
<223>   n = unknown

<400>   444
tttttttttt tttttttttt tttttttttt tatttcataa agcttctata tttatatatt   60

ttaaataatc agaaattact atagttaatg acattttgtt tgtgctcctt acataaaata   120

caattttata cattttaatt tttatacata ttttttatat ttaattgcac agatcatttg   180

```
tgtatttatt atattaattg actactttan gataatttga ancctaatta gtctattcaa      240

gattgttttc ctggtttaag ccttacttag caatctcact tttgcattcn tcgccgggtg      300

gcgtgggtat gcatcgcaac tccgttttat caaagtgcaa gccatttgga caancataat      360

gttttatttg ccanttgttg ttaaccaaga aacattgata atattttta caatctcttc      420

gatcggnaaa aacgttttca cttttgcatg cacttctgca cganaaanat ttgggtcaaa      480

ccattcgttg acgtcgtctt                                                  500
```

```
<210>   445
<211>   173
<212>   DNA
<213>   Ctenocephalides felis

<400>   445
tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac       60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc      120

acgaattcac gcaactaaat tttactttt tacatttttg ctcgggtttc ggt             173
```

```
<210>   446
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   446
tgaaatgtgg agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg       60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt      120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180

ataaaacgga gttgcgatgc atacccacgc cacccggcga gaatgcaaa agtgagattg       240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt      480

acatgtatct ttttaata                                                    498
```

```
<210>   447
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
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<222>   (376)..(376)
<223>   n = unknown

<220>
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<222>   (390)..(390)
<223>   n = unknown

<220>
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<222>   (407)..(407)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (442)..(442)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (467)..(467)
<223>   n = unknown

<400>   447
tttttgaacg gcccaaacga tttattttta ttaaaaagat acatgtaatt tcataaagct        60

tctatattta tatattttaa ataatcagaa attactatag ttaatgacat tttgtttgtg       120

ctccttacat aaaatacaat tttatacatt ttaattttta tacatatttt ttatatttaa       180

ttgcacagat catttgtgta tttattatat taattgacta ctttatgata atttgaatcc       240

taattagtct attcaagatt gttttcctgg tttaagcctt acttagcaat ctcacttttg       300

cattcttcgc cgggtggcgt gggtatgcat cgcaactccg ttttatcaaa gtgcaagcca       360

tttggacaat cataangttt tatttgccan ttgttgttaa ccaaganaca ttgataatat       420

tttttacaag tctcttcgat cngaaaaaac gttttcactt ttgcaancag ttctgcacga       480

gaaagatttg ggtcaaacca                                                    500


<210>   448
<211>   271
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (105)..(105)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (139)..(139)
<223>   n = unknown
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<220>
<221>  misc_feature
<222>  (191)..(191)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (194)..(194)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (202)..(202)
<223>  n = unknown

<400>  448
tttttttttt tttttttttt tttttttttgg aacgtcttct aacagttttt cggcaatttc      60

atgtgatggt tgattacttg aagttacgtc agtagcttct ttcanggcgt cagtaatttg     120

cgattttgaa acatcgccna ccttcggcaa ttctataaca gtggttgatt cgagaggttg     180

aaattgtttc ntantttgt cnttttatt tttctttgtt ttgtcagttg tctcttccat      240

aactttgtca ttgcccttct ttgaaggttg a                                    271


<210>  449
<211>  385
<212>  DNA
<213>  Ctenocephalides felis

<400>  449
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta     120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat     180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt     240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca     300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt     360

tattagattc gatgtaagat atatg                                           385


<210>  450
<211>  223
<212>  DNA
<213>  Ctenocephalides felis

<400>  450
aattgcgaag tctggaacta aagccttcat ggaagcctta caagctggag ccgatattag      60

tatgattggt caatttggtg ttggtttcta ctcggcctat ctcgttgctg ataaagtcac     120

ggtcacatct aagcacaatg atgatgaaca atacctttgg gaatcttccg caggaggttc     180
```

cttcacagtt aagactgaca actctgaacc cctcggccgt ggt   223

<210>   451
<211>   345
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (53)..(53)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (110)..(110)
<223>   n = unknown

<220>   .
<221>   misc_feature
<222>   (115)..(115)
<223>   n = unknown

<220>
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<222>   (165)..(165)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (322)..(322)
<223>   n = unknown

<400>   451
tttttttttt tttttttttt tttttttttt ttaattaatt acaaaggaac ggnccaaacg   60

atttattttt attaaaaaga tacatgtaat ttcataaagc ttctataggn tatanagttt   120

taaataatca gaaattacta tagttaatga cattttgttt gtgcncctta cataaaatac   180

aattttatac attttaattt ttagacatat tttttatatt taattgcgca gatcatttgt   240

gtatttatta tattaattga ctactttatg ataatttgaa tcctaattag tctattcaag   300

attgttttcc tggtttaagc cntacttagc aatctcactt ttgca   345

<210>   452
<211>   375
<212>   DNA
<213>   Ctenocephalides felis

<400>   452
cgtcaagtcc aatccaaaag tggaagcttt ttcaggaaag ttactaagag aggtgtcatt   60

tccaccagtg ggatcgagaa ataatcgcac aattagctgt gttcgtgccc tggaccaata   120

```
tgtaaatggc caaggaggct atgccactct tgtcaatggt ggagttggct ggaaaaatgt    180

aactttactc ctatcttctc agactggcaa aggatttaac ttcttagttg aaatttgggg    240

atattagatt agaaatataa tgaaaatgtg aatatagaaa aaaaattaaa tatacaatag    300

tattttaaat ttggcacaca tctatctatg catccataaa taaaggttat atacagcatt    360

catttaaaaa aaaat    375
```

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<210>    453
<211>    411
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (16)..(16)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (81)..(81)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (123)..(123)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (216)..(216)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (229)..(229)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (238)..(238)
<223>    n = unknown

<220>
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<222>    (256)..(256)
<223>    n = unknown

<220>
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<222>    (260)..(260)
<223>    n = unknown

<220>
<221>    misc_feature
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<222>  (287)..(287)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (392)..(392)
<223>  n = unknown

<400>  453
tttttttttt tttttntttt tttgaacggc ccaaacgatt tattttttatt aaaaagatac      60

atgtaatttc ataaagcttc natatttata tattttaaat aatcagaaat tactatagtt     120

aangacattt tgtttgtgct ccttacataa aatacaattt tatacatttt aatttttaga     180

catatttttt atatttaatt gcacagatca ggttgngtat ttattatant aattgacnac     240

tttatgataa tttgantccn aaatagtcta ttcaagattg ttttccnggt ttaagcctta     300

cttatcaatc tcacttttgc attcttcgcc gggtggcgtg ggtatgcatc gcaactccgt     360

tttatcaaag tgcaagccat ttggacaatc anaatgtttt atttgccatt t            411
```

```
<210>  454
<211>  490
<212>  DNA
<213>  Ctenocephalides felis

<220>
<221>  misc_feature
<222>  (483)..(483)
<223>  n = unknown

<400>  454
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga gaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

aanaaaaaaa                                                           490
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```
<210>  455
<211>  437
<212>  DNA
<213>  Ctenocephalides felis
```

<400> 455

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cacgattcaa tatcgacgat ttcaaaattt gctgcgttga ctttataaat tttataattc      60

ggatttcggt taacgtaagt tgtaatactt cctccattga atgcaacatt aataggatgt     120

gatgaattca tagaatcata gaaaatctta aattcgtcat tatgtgtgtg gccattgaat     180

tgtcctgtta ttatatgcga aaatctttgg atgatgcgcc tatattctct gtcccaagta     240

atgaagttag tgggttcacc aggaggaaca tgtcccaaaa tgtgcacttt ttcattagtt     300

ctttctgctt ctaacagagt atcatgtaac cattgcaatt gctttttggg gaatgcagga     360

tcatacagta accacaaatt ataaatatag gccacattat tattcaacgc tatgactcgt     420

agtccaagtt taggtgt                                                    437
```

<210> 456
<211> 434
<212> DNA
<213> Ctenocephalides felis

<400> 456

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agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa      60

tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg     120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct     180

attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat·aaatgcctgt     240

tcttccattg tgtctttaca ctcggtcgta catctgtgat ttttagtaac attttatgta     300

tacaaatata atgcactcat tttaagaatt aggattaaaa ggcttccaaa tttttttttg     360

cgaaaaatgt atcatataaa attaattaat tcgtatttgt aagttaatgt aaataaaata     420

cagaaaagtt atca                                                      434
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<210> 457
<211> 133
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (6)..(6)
<223> n = unknown

<400> 457

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ctgtangtga agaattatta ggcagagtag ttgatgcttt aggaaatgcc attgatggca      60

aaggtgcttt acaaagcaaa accagattcc gtgtaggaac taaagctccc ggtatcattc     120

cacgtgtctc tgt                                                       133
```

<210> 458
<211> 386
<212> DNA
<213> Ctenocephalides felis

<400> 458
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt   60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta   120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat   180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt   240

cgtgtgttgt gaaatgtaat tatactttga gaaagtatta tcaattacaa agaaaattca   300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt   360

tattagattc gatgtaagat atatgt   386

<210> 459
<211> 491
<212> DNA
<213> Ctenocephalides felis

<400> 459
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt   420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt   480

aaaaaaaaaa a   491

<210> 460
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (461)..(461)
<223> n = unknown

<400> 460

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tttttttttg aacggcccaa acgatttatt tttattaaaa agatacatgt aatttcataa      60

agcttctata tttatatatt ttaaataatc agaaattact atagttaatg acattttgtt     120

tgtgctcctt acataaaata caattttata cattttaatt tttatacata tttttttatat    180

ttaattgcac agatcatttg tgtatttatt atattaattg actactttat gataatttga     240

atcctaatta gtctattcaa gattgttttc ctggtttaag ccttacttag caatctcact     300

tttgcattct tcgccgggtg gcgtgggtat gcatcgcaac tccgtttttat caaagtgcaa    360

gccatttgga caatcataat gtttttattg ccatttgttg ttaaccaaga aacattgata     420

atatttttta caatctcttc gatcgggaaa aacgtttcac ntttgcatgc agttctgcac     480

gagaaagatt ttgggtcaaa                                                  500
```

<210> 461
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 461

```
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaaaa     480

aaaaaaaaaa aaaaaaaa                                                    498
```

<210> 462
<211> 105
<212> DNA
<213> Ctenocephalides felis

<400> 462

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caagattggc cgctgatgta ggtaaaggcg ctggtcaacg tgaattctct ggattgggca      60

actgcttgac caaaatcttc aagtctgatg gtctccctgg attgt                     105
```

<210> 463
<211> 462
<212> DNA

```
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (71)..(71)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (156)..(156)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (184)..(184)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (399)..(399)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (406)..(406)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (434)..(434)
<223>   n = unknown

<400>   463
tttttttttt tttttttttt tttttttgtt tactatataa gttatatttc gtatacattt    60

tgtagttcca natttcaatt tgctacttaa catattttat aattatggat ttattcaaaa   120

ttaatttaat ccaagagctt atgaaattgt atttancttt tagccattca gcaataaaag   180

gtantaaaaa atacacatag aaatcttttc aggtatggcc atttatacat tttttttatta   240

cagtcatcaa aaaaatagta tttctatgtt attttttcaaa atctatacat tgataaggggt   300

tagaaatttg ttcggttaat tttcaggctg aggttgctac tgtagtaata gaacaatttt   360

aataatctaa aatttgatta atctattaca tttaatcant caatantaaa tttccttttg   420

gaatttcgaa tggntgtcca ttacggtaaa caaagtctcc tc                       462


<210>   464
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   464
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg    60
```

```
catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt    120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg    180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg    240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc    300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa    360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt    420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt    480

acatgtatct ttttaata                                                  498
```

```
<210>  465
<211>  333
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (281)..(281)
<223>  n = unknown

<400>  465
tttttttttt tttttttttt tttttttttg gtttatttat aaataacttt aggtgtccgc     60

cactagggga cttcccccta catttagaag tccgtattat ttcttacttt taattttatt    120

ttcttcattt ttatattaac tctatatctt tatctatcta tctattagtt caaccaataa    180

aattaagcgt aaaatgaata attttgatta gaacaaatat attcatggat ttaaaaaaat    240

ctaaattgta aaattcttaa atgccttatc atatttgcga ncctgtgttc aaccataata    300

ttttttttata taacacataa agtaaaacaa agt                                333
```

```
<210>  466
<211>  492
<212>  DNA
<213>  Ctenocephalides felis

<400>  466
tttttttttt tttttttttt tttttttctttt caaagcattt tatttttgtt ttaaaataca     60

taagcattga taaatataaa gatagtttta tacgagctta agcttcttta taagttacaa    120

attaccaggt atatcaaaat aagaaaaata agtaaactat taatacaata caaaaaaaaa    180

cataaaaatt tgaaaactta atactaatat gaagcattag acattacaat ttaataatac    240

ataaatttta aaaagaattt aataaaatta tttatgacgt gccattcttt gatgacatgg    300

catttgttga tgactttcaa ttttcaactt ctgcatctctc agtgatggta tcgttgatat    360
```

```
cgagaagctg ttggatatat gattgatcgc tcaatatgct tgataatgac gatagcagct      420

ttgttagctc tgaactagac attcttaatt gtgaactgca ctcattgatc tgatgttgaa      480

gttgctctgg ta                                                          492
```

```
<210>   467
<211>   143
<212>   DNA
<213>   Ctenocephalides felis

<400>   467
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag       60

atcatgtaag aattattggt cgaacagacc aaattttaaa acttctgcat tttaaaatta      120

tcttaatcca acatcgaggt cgc                                              143
```

```
<210>   468
<211>   386
<212>   DNA
<213>   Ctenocephalides felis

<400>   468
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt       60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta      120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat      180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt      240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca      300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt      360

tattagattc gatgtaagat atatgt                                          386
```

```
<210>   469
<211>   269
<212>   DNA
<213>   Ctenocephalides felis

<400>   469
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa       60

tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg      120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct      180

attatgggaa atccaatcgc atatccagct tccaacatta agaatgcat aaatgcctgt      240

tcttccattg tgtctttaca ctcggtcgt                                       269
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```
<210>  470
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (408)..(408)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (425)..(425)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (429)..(429)
<223>  n = unknown

<400>  470
tttttttttt tttttttttt tttttttttt taacggccca aacgatttat ttttattaaa      60

aagatacatg taatttcata aagcttctat atttatatat tttaaataat cagaaattac     120

tatagttaat gacattttgt ttgtgctcct tacataaaat acaattttat acattttaat     180

ttttatacat attttttata tttaattgca cagatcattt gtgtatttat tatattaatt     240

gactacttta tgataatttg aatcctaatt agtctattca agattgtttt cctggtttaa     300

gccttactta gcaatctcac ttttgcattc ttcgccgggt ggcgtgggta tgcatcgcaa     360

ctccgtttta tcaaagtgca agccatttgg acaatcataa tgttttantt gccatttgtg     420

gttancaang aaacattgat aatattttta caatctcttc gatcggaaaa aacgttttca     480

cttttgcatg cagttctgca                                                 500


<210>  471
<211>  118
<212>  DNA
<213>  Ctenocephalides felis

<400>  471
ctgtattttt cttctggtca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac      60

caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctcg gtgatggt      118


<210>  472
<211>  488
<212>  DNA
<213>  Ctenocephalides felis

<400>  472
aattgtgtat tattattatt atttggtata ttattgatat aataattgtc ttaaaatata      60
```

```
tcactacagc gcgctatcat cgactagtgc attatcataa taaataagca tctgcactat    120

aaagcttaat gattatttgc tgatttcgat tttgaactaa ttgaaaaaat taactggaac    180

ttttcccaga ttgaaatcac ttcatttaag acaattacaa ccatttttaa ggaggtattt    240

ggctatgatt tgtctcctgg caaaacaaag gggcggcata tattacataa tcctataact    300

atagaaaagc aaatttaatt gtaaataatt ttaagagatt ataaaagaat tcatatattt    360

tgttttgcat aatcttacag tgatagaaga aattatacaa attttgtgtg atttagtgca    420

aaattatctt ttaaaaaaat ataagtgata agaaatttaa tatatttaat taaatttata    480

tctgctgt                                                             488
```

```
<210>    473
<211>    269
<212>    DNA
<213>    Ctenocephalides felis

<400>    473
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa     60

tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg    120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct    180

attatgggaa atccaatcgc atatccagct tccaacatta agaatgcat aaatgcctgt     240

tcttccattg tgtctttaca ctcggtcgt                                      269
```

```
<210>    474
<211>    500
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (297)..(297)
<223>    n = unknown

<400>    474
tttttttttt ttttttataat taattacaaa ggaacggccc taacgattta ttttttattaa    60

aaagatacat gtaatttcat aaagcttcta tatttatata ttttaaataa tcagaaatta    120

ctatagttaa tgacattttg tttgtgctcc ttacataaaa tacaatttta tacattttaa    180

ttttttataca tattttttat atttaattgc acagatcatt tgtgtattta ttatattaat    240

tgactacttt atgataattt gaatcctaat tagtctattc aagattgttt tcctggntta    300

agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgca    360
```

```
actccgtttt atcaaagtgc aagccatttg gacaatcata atgttttatt tgccaattgt      420

tgttaaccaa gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt      480

cacttttgca tgcagttctg                                                  500
```

```
<210>   475
<211>   311
<212>   DNA
<213>   Ctenocephalides felis

<400>   475
tttgttttac tttatgtgtt atataaaaaa atattatggt tgaacacagg ctcgcaaata       60

tgataaggca tttaagaatt ttacaattta gattttttta aatccatgaa tatatttgtt      120

ctaatcaaaa ttattcattt tacgcttaat tttattggtt gaactaatag atagatagat      180

aaagatatag agttaatata aaaatgaaga aaataaaatt aaaagtaaga aataatacgg      240

acttctaaat gtaggggaa gtcccctagt ggcggacacc taaagttatt tataaataaa       300

tcaaaaaaaa a                                                           311
```

```
<210>   476
<211>   438
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (79)..(79)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (88)..(88)
<223>   n = unknown

<400>   476
aggagacttt gtttaccgta atggacaacc attcgaaatt ccaaaaggaa atttactatt       60

gaatgattaa atgtaatana ttaatcanat tttagatgat taaaattgtt ctattactac      120

aatagcaacc tctgcctgaa aattaaccga acaaacttct aacatcctta ttaatgtata      180

gattttgaat aataacatag aaattatact attttttga tgactctaat aaaaaaaatg       240

tataaatggc catgcctgat atatttttga taaccttaat gaaaaaatgt ttaaatggcc      300

atgtctgaaa agatttctat gcgtatttt ttgttaacat tttattgttg aatggataaa      360

agataaatac aatttttataa gctgtttgga taaattaatt ttgaataaat ccataatcat     420

agaatatgtt aagtagca                                                    438
```

<210> 477
<211> 484
<212> DNA
<213> Ctenocephalides felis

<400> 477
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg   60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattacc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca acaaaatgt   420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttataaaaaa   480

aaaa   484

<210> 478
<211> 434
<212> DNA
<213> Ctenocephalides felis

<400> 478
gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat   60

tgaatgatta aatgtaatag attaatcaaa ttttagatta ttaaaattgt tctattacta   120

cagtagcaac ctcagcctga aaattaaccg aacaaatttc taacccttat caatgtatag   180

attttgaaaa ataacataga aatactattt ttttgatgac tgtaataaaa aaatgtataa   240

atggccatac ctgaaaagat ttctatgtgt attttttatt acctttatt gctgaatgga   300

taaaagataa atacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa   360

ttataaaata tgttaagtag caaattgaaa tatggaacta caaaatgtat acgaaatata   420

acttatataa taaa   434

<210> 479
<211> 173
<212> DNA
<213> Ctenocephalides felis

<400> 479
tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac   60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc   120

atgaattcac gcaactaaat tttactttttt tacattttttg ctcgggtttc ggt   173

<210>   480
<211>   415
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (16)..(16)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (401)..(401)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (410)..(410)
<223>   n = unknown

<400>   480
acacaattat caatangaaa atctagccac aaatatttttt aacaatttat ttaatactta   60

tgttctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt   120

taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactacta taatgattat   180

tgaaataatg ctttttataga ttgcatttca atctgtatta aattgtatgt aaatcacagc   240

acaagatcta acacacaatt catctaacag aaagaacaaa ataattttaa tgttattaaa   300

aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag   360

atactttttca tacaacagtg ctttctgtat aaacaatata ntataacatn acggt   415

<210>   481
<211>   500
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (40)..(40)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (257)..(257)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (352)..(352)

<223> n = unknown

<220>
<221> misc_feature
<222> (401)..(401)
<223> n = unknown

<220>
<221> misc_feature
<222> (426)..(426)
<223> n = unknown

<220>
<221> misc_feature
<222> (443)..(443)
<223> n = unknown

<400> 481
tttttttttt tttttttttt tttttttttt ttaatttcan aaagcttcta tatttatata   60

ttttaaataa tcagaaatta ctatagttaa tgacattttg tttgtgctcc ttacataaaa   120

tacaatttta tacattttaa tttttataca tatttttttac atttaattgc acagatcatt   180

tgtgtattta ttatattaat tgactacttt atgataattt gaatcctaat tagtctattc   240

aagattgttt tcctggntta agccttactt agcaatctca cttttgcatt cttcgccggg   300

tggcgtgggt atgcatcgca actccgtttt atcaaagtgc aagccatttg gncaatcata   360

atgttttatt tgccatttgt tgttaaccaa gaaacattga naatattttt tacaatctct   420

tcgatnggaa aaaaggtttc acntttgcat gcagttctgc acgagaaaga tttgggtcaa   480

accattcgtt gacgtcgtct   500

<210> 482
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 482
aaaacttcaa agaacattcc atccaatgga ttttcaaaca ttctcatcat acggtagttt   60

gatataggaa aattaacaaa tacaataaca atatattaaa ctattcatat tagttatact   120

atttatttct taatccacaa gttcagagac ttcagtaatt gtagcatctg ctaacatgcc   180

ttttttgtca ccagttatta catgaccaac aataaaagct ttttgctttt caagctcata   240

aatctcttta atatatcctt ctgcatctgc ttttggtaaa gctattaata ggcctcctga   300

agtttctggc aaatatcctt ctgctagctt aaacattttg ctgaagattt ggcaacttc   360

ggaacatttg taaaaaactg gtagtttatt caatacaaat gaaacattat ttttctgatt   420

ctgggccaaa ttatcagcat gaccgagaat ccaaagcct gtgacatcag tagcaccatg   480

agcattatat ttatgcaa   498


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<210>   483
<211>   423
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (333)..(333)
<223>   n = unknown

<400>   483
taattactta taaaacttgt tatatgacac gtgttttgca atatgtgact atcattttcc    60

cataaatgtt ttgtaatgta aaaatgtaaa tttatgaaaa gttttaaatc aaaaactctc   120

attttttta aaagaaggaa cattgaaaat aacgatgctg gatacaaatc ccaggggcaa    180

aaactataac actaattgaa aatctaattt tttacactcg caaactgcag aattaatatg   240

tattcgagtg ggacgagcta attgtatcaa tattcaacaa taaccgattt tcaataatat   300

tgatctccat tgagattaaa caataagtca tanatgaata ccattaaaaa tgatctgttt   360

actgttttat atatgtaata aaacttggaa agtaacaata aaataaatta ttgataatca   420

aca                                                                  423


<210>   484
<211>   403
<212>   DNA
<213>   Ctenocephalides felis

<400>   484
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ttgttacatt gttatattta tattattttg acgcaattat attttctatg tttggataat   120

aatatttttt gtaaattaag tttatgatga acttagttct gttacgtaac aaaaaggtaa   180

cattgtagta acatataaaa tacaaagtgt catagttgtt attattttga taactttata   240

tagatttagt gttatttaaa agttatttgt atatatatta ataaaaaaat tcaaaggtaa   300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   360

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa                      403


<210>   485
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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

aanaaaataa naaaaaac                                                   498


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aattcttata aagtaaatac atcatccagt tacacacgta tttatatatc catataactc     120

gacaaagtag ctttacacaa tttggaaatt gcaatgtgtt aaaactaatt gttttttaga     180

actatattat attatatttt ggggaatatt aaagttacgg acctacaaaa ttaagactat     240

gtaatgtatt cttctttagc cactgacaaa tttaaataat aaatcttgct tcgataagta     300

atttgaacta atatcgatga cttcctttcg tttttgaaaa ctaaaaactc ttgt          354


<210>  487
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<212>  DNA
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<223>  n = unknown

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cagtagcaac ctcagcctga aaattaaccg aacaaatttc taacccttat caatgtatag     180

attttgaaaa ataacataga aatactattt tttgatgact gtaataaaaa aatgtataag     240

atggccatac ctgaaaagat ttctatgtgt attttttant accttttatt gctgaatgga     300

taaaagataa ntacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa     360

ttataaaata tgttaagtan caaattga                                        388


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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcanttaa ctataaanaa   360

tatgtatnaa aattaaaatg tataaaaatg tantttatgt tagggagcac aancaaaatg   420

tcataactat agtaattcng attaattaaa atatntaata tagaagctta tgaantacat   480

gtaccttta ataaaata   498

<210> 489
<211> 324
<212> DNA
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attttaatgt caataatgtg cattttacat cnaataattt gaaatcatta atggncataa   120

atcttcgaaa agttgatggc acttcatgct tcaaatcgcc aacgacataa caagctcaag   180

atgcaatatt aaactatgtt gtaaacataa aatatattat tgaaatttta taaagaggac   240

ttttataatc gctcaaagtt tgacttaata taatataaat tatttctctt taatatattt   300

ttatatttta aagaaaatgt atgt                                          324


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ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact   120

aatggggtgt tcttggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat   180

gctgcacggt agatgatgat accttgaaca gatactccaa aaccacggt                229


<210> 491
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<212> DNA
<213> Ctenocephalides felis

<400> 491
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tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta   120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat   180

agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaat   240

gtataaatgg ccatgcctga tatattttg ataaccttaa tgaaaaaatg tttaaatggc    300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa   360

aagataaata caattttata agctgtttgg ataaattaat t                       401
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tcagaaatta ctntngtnaa tgannttttg tttgngctcc ttacataaaa nacaatttta     120

tncattttaa tttttatacn tatttttat attaattgc ncagatcatt tgggtattta     180

ttatattaat tgactncttt atgataattt gaatcctaat tagtgtattc aagattgttt     240

tcctggttta agccttactt a                                              261


<210>  494
<211>  220
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<213>  Ctenocephalides felis

<400>  494
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ccatcgtgac tcagaccagg attcatggat gggtggtttg ccattgaaac tgagaggcat     180

taatgacatg ttcaatggac taaatgtgtc tagtcccagt                          220


<210>  495
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ttacagtntt tcctcaaaaa ctgttaaata caataagtta acttaaatac atggatgt   118

<210> 496
<211> 269
<212> DNA
<213> Ctenocephalides felis

<400> 496
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tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg   120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct   180

attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt   240

tcttccattg tgtctttaca ctcggtcgt   269

<210> 497
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<212> DNA
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aacacatctc atgtaaggtt actttattgt aaaagttatt ttatatgnaa tttttaataa     120

cattaaaatt attntgttct ttctgtnaga tgaattgngt gttagatctt gtgctgtgat     180

ttacatacaa tttaatacag attgaaatgc aatctataaa agcattattt caataatcat     240

tatatagtaa ttnngatttt gactatttgc agataaattc attacatttt aaaatgttta     300

ctttattaag ctatacaaac cttgaacttt acactttgta tntctagaac ataagtatta     360

aataaattgc taaaaatatt tgtggctaga ttctnctatt gctaattgng tg            412


<210>  498
<211>  386
<212>  DNA
<213>  Ctenocephalides felis

<400>  498
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agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag     120

tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct     180

cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca     240

tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat     300

tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac     360

tgccattgcc ctgagttgtg tagggt                                         386


<210>  499
<211>  118
<212>  DNA
<213>  Ctenocephalides felis

<400>  499
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ctgtattttt cttctggtca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac      60

caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctcg gtgatggt      118
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<213>   Ctenocephalides felis


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ttttatacat tttaattttt atacatattt tttatattta attgcacaga tcatttgngt     180

atttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat     240

tgntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg     300

tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatgnt     360

ttatttgcca tttgttgtta accaagaaac attgataata ttttttacaa tctcttcgat     420

cggaaaaaac gttttcactt ttgcatgcag tctgccgaga aagattttgg gtcaaaccat     480

tcgttgacgt cgcttcacat                                                 500
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<210>   501
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   501
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gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat      60
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tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta      120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat      180

agattttgaa taataacata gaaattatac tattttttg atgactctaa taaaaaaat       240

gtataaatgg ccatgcctga tatattttg ataaccttaa tgaaaaaatg tttaaatggc      300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa      360

aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca      420

tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaatg tatacgaaat       480

ataacttata tgatatat                                                    498
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<211>    500
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<400>    502
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taatcagaaa ttactatagt taatgacatt ttgtttgtgc tccttacata aaatacaatt      120

ttatacattt taattttat acatattttt tatatttaat tgcacagatc atttgtgtat       180

ttattatatt aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg      240

ttttcctggt ttaagcctta cttagcaatc tcacttttgc attcttcgcc gggtggcgtg      300

ggtatgcatc gcaactccgt tttatcaaag tgcaagccat ttggacaatc ataatgtttt      360

atttgccatt tgttgttaac caagaaacat tgataatatt ttttacaatc tcttcgatcg      420

gaaaaaacgt tttcactttt gcatgcagtt ctgcacgaga aagattttgg gcaaaccatt      480

cgttgacgtc gcttcacatt                                                  500
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<212>    DNA
<213>    Ctenocephalides felis

<400>    503
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aatgatgggt cgattaggaa gtgttgttgg aagcaatgtt gtaggaataa ttctagatta      120

taattgcgat ttaacatttt taatatcagg aacatctctg atagcatgtg gagtgattgc      180

attctttata ccgaacattt atcagaagca agtggataga agaacgagca ttgcttcata      240

tggaccataa ccatatttcc gtcgtgtgtt gtgaaatgca attatacttt gagaaagtat      300

tatcaattac aaagaaaatt cagaagttgc tactgaatca ttttctaaaa catcgacatg      360
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aaaattaata actctttatt gttattagat tcgatgtaag atatatgt   408

<210>   504
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<212>   DNA
<213>   Ctenocephalides felis

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<223>   n = unknown

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<223>   n = unknown

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ttatacattt taatttttat acatattttt tatatttaat tgcacagatc atttgngtat   180

ttattatatt aattgactac tttatgataa tttgaatcct aattagtcta ttcaagattg   240

ttttcctggt ttaagcctta cttagcaatc tcactttgc attcttcgcc gggtggcgtg   300

ggtatgcatc gcaactccgt tttatcaaag tgcaagccat ttggacaatc ataatgtttt   360

atttgccatt tgttgttaac caagaaacat tgataatatt ttttacaatc tcttcgatcg   420

gaaaaaacgt tttcacttttt gcatgcagtt ctgcacgaga aagatttttgg gtcaaaccat   480

tcgttgacgt cgcttcacat   500

<210>   505
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   505
gaggagactt tgtttaccgt aatggacgac cattcgaaat tccaaaagga aatttactat   60

tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta   120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat   180

agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaat   240

gtataaatgg ccatgcctga tatattttg ataaccttaa tgaaaaaatg tttaaatggc   300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa   360

aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca   420

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tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat      480

ataacttata tgatatat                                                    498


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<211>   173
<212>   DNA
<213>   Ctenocephalides felis

<400>   506
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac      60

ccgaaatgcg gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag     120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt           173


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<213>   Ctenocephalides felis


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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg cataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

aaaaaaanna aatgaaaa                                                    498


<210>   508
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<213>   Ctenocephalides felis


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gcatattgag cgatcaatca tatatccaac agcttctcga tatcaacgat accatcactg       180

agatgtcaga agttgaaaat tgaaagtcat caacaaatgc catgtcatca aagaatggca       240

cgtcataaat aatttattta aattcttttt aaaatttatg tattattaaa ttgtaatgtc       300

taatgcttca tattagtatt aagttttcaa attttatgt tttttttgt attgtattaa        360

tagtttactt attttttctta ttttgatata cctggtaatt tgtaacttat aaagaagctt       420

aagctcgtat aaactatctt tatattatca atgcttatgt attttaaaca aaaataaaat       480

gctttgaaag gaaaaaaa                                                    498
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<210> 509
<211> 414
<212> DNA
<213> Ctenocephalides felis

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<222> (52)..(52)
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<220>
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<222> (54)..(54)
<223> n = unknown

<220>
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<222> (65)..(65)
<223> n = unknown

<400> 509
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acacaattag caataggaaa atctagccac aaatattttt aacaatttat tngntactta        60

tgtgnctaga aatacaaagt gtaaagttca aggtttgtat agcttaataa agtaaacatt       120

ttaaaatgta atgaatttat ctgcaaatag tcaaaatcaa aattactata taatgattat       180

tgaaataatg cttttatcga ttgcatttca atctgtatta aattgtatgt aaatcacagc       240

acaagatcta acacacaatt catctaacag aaagaacaaa ataatttttaa tgttattaaa       300

aattacatat aaaataactt ttacaataaa gtaaccttac atgagatgtg ttgatttcag       360

atactttcca tacaacagtg ctttctgtat aaacaatata atataaataa cggt            414
```

<210> 510
<211> 229
<212> DNA
<213> Ctenocephalides felis

<400> 510
aacatttctg actttgcacg tccagactgc atcatcatac gcctacggac agtgtcgaat   60

ggatatgaca caataccagc aacagttgtg acggcttgtg caatggccca gctgataact   120

aatggggtgt tcttggggtc tggcaacatt ccacgagcgg tgtcatagaa tccaaagtat   180

gctgcacggt aggtgatgat accttgaaca gatactccaa aaccacggt   229

<210> 511
<211> 223
<212> DNA
<213> Ctenocephalides felis

<400> 511
aattgcgaag tctggaacta aagccttcat ggaagcctta caagctggag ccgatattag   60

tatgattggt caatttggtg ttggtttcta ctcggcctat ctcgttgctg ataaagtcac   120

ggtcacatct aagcacaatg atgatgaaca ataccctttgg gaatcttccg caggaggttc   180

cttcacagtt aagactgaca actctgaacc cctcggccgt ggt   223

<210> 512
<211> 414
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (65)..(65)
<223> n = unknown

<400> 512
ccgttattta tattatattg tttatacaga aagcactgtt gtatgaaaag tatctgaaat   60

caacncatct catgtaaggt tactttattg taaaagttat tttatatgta attttaata   120

acattaaaat tattttgttc tttctgttag atgaattgtg tgttagatct tgtgctgtga   180

tttacataca atttaataca gattgaaatg caatctataa aagcattatt tcaataatca   240

ttatatagta attttgattt tgactatttg cagataaatt cattacatat taaaatgttt   300

actttattaa gctatacaaa ccttgaactt tacactttgt atttctagaa cataagtatt   360

aaataaattg ttaaaaatat ttgtggctag attttcctat tgctaattgt gtgt   414

<210> 513
<211> 498

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<212> DNA
<213> Ctenocephalides felis

<400> 513
gatgaaatca agaaattgtt gtaaattaag caataaacaa ccataaaaaa aaaagagaaa   60

aatctaaaaa caatttaaat tagcaaaacc aagtgtattt gaatttcatt tttgcacaag   120

ttaccttttt gtattaaaat atatgtatat ttatgaatat gtatttcttg tattttaggt   180

taaattcgtt atagaataat ttggaaatac atattcataa tgctaaagta ttaaattggc   240

tttttttccat taaaatccta tttaacatta tacatatatt ttattgtcaa atgtgaggcg   300

gtatggaatc acgggtggct gctttctgag tagtcgaacc ttttaggcaa aaattgtgta   360

gatcaaactc agttctacaa tcttgagctc atccacattc tcagaacatc catgtattta   420

agttaactta ttgtatttaa cagtttttga ggaaatctgt aaatatgttt aagataaata   480

caagtaaaat tgtcgaat   498

<210>   514
<211>   267
<212>   DNA
<213>   Ctenocephalides felis

<400>   514
cccgctgtcg gaccaaagtc gcttcatagc tgctaaaagt tcctcggaaa atgcttctgt   60

atcctccata cgttggatta cgtcaaagac cattttgccg tccgtctctc tttcattgtt   120

cccaaaacta atgcccaaat tgggcatggc ccgcagtatg gcaaccagtg attgaatggt   180

attactgtaa acaactggtc gatattgttt gaagtcttcg cttgtgaaac ccgactcatg   240

gataattttc atttgtttta cgatagt   267

<210>   515
<211>   131
<212>   DNA
<213>   Ctenocephalides felis

<400>   515
cttttgcatg taggatccaa tggatcgcga aatagtccaa ctcttggaca aatgaatggt   60

tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc   120

aaagacaatg t   131

<210>   516
<211>   156
<212>   DNA
<213>   Ctenocephalides felis

<400>   516

```
ttttatttgt caaaaagcta cataagctag aaccattaga ccacaaataa tatatcacta      60

gacatttta ggaagtttac agtttgttat acaattctta aactaattta gttatcagta      120

agttttaagc agtcggcaca gtctttacgg acttgt                               156
```


```
<210>   517
<211>   245
<212>   DNA
<213>   Ctenocephalides felis

<400>   517
gggtggatca ttccaacctg gtggtggtgt agggtttgct ctacttggca tttgagtagg      60

aggtggtgct tgcggttgga attgattgac aaaacctgct ccttgtggtg aattcaacat      120

agggttaagt agggcatttg ttggttgagg ttgagaacta ataggattca gaagacttgc      180

tggttgttgg aattgaccag acattgtgct catcgtaact gtattggcat ttacaggcga      240

attgt                                                                  245
```


```
<210>   518
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   518
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt      120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180

ataaaacgga gttgcgatgc atgcccacgc cacccggcga agaatgcaaa agtgagattg      240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt      480

acatgtatct ttttaata                                                    498
```


```
<210>   519
<211>   413
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (64)..(64)
<223>   n = unknown
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<400> 519

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acacaattag caataggaaa atctagccac aaatattttt aacaatttat ttaatactta      60

tggnctagaa atacaaagtg taaagttcaa ggtttgtata gcttaataaa gtaaacattt     120

taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt     180

gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca     240

caagatctaa cacacaattc atctaacaga aagaacaaaa taatttttat gttattaaaa     300

attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga     360

tacttttcat acaacagtgc tttctgtata aacaatataa tataaataac ggt           413
```

<210> 520
<211> 95
<212> DNA
<213> Ctenocephalides felis

<400> 520

```
tacgagtgca cattaaacgc tcaaggtgta ttcgacgtgg cccgatatgc ttgtgcagct      60

gagttatatt tcaacagcgt tctgcagcag tgcgt                                95
```

<210> 521
<211> 143
<212> DNA
<213> Ctenocephalides felis

<400> 521

```
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag      60

atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta     120

tcttaatcca acatcgaggt cgc                                            143
```

<210> 522
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (48)..(48)
<223> n = unknown

<220>
<221> misc_feature
<222> (109)..(109)
<223> n = unknown

<220>
<221> misc_feature

<222> (140)..(140)
<223> n = unknown

<220>
<221> misc_feature
<222> (216)..(216)
<223> n = unknown

<220>
<221> misc_feature
<222> (255)..(255)
<223> n = unknown

<220>
<221> misc_feature
<222> (373)..(373)
<223> n = unknown

<220>
<221> misc_feature
<222> (414)..(414)
<223> n = unknown

<220>
<221> misc_feature
<222> (433)..(434)
<223> n = unknown

<220>
<221> misc_feature
<222> (444)..(444)
<223> n = unknown

<400> 522
tttttttttt tttttttttt tttttttagc ggcccaaacg atttattntt attaaaaaga   60

tacatgtaat ttcataaagc ttctatattt atatatttta aataatcana aattactata   120

gttaatgaca ttttgtttgn gctccttaca taaaatacaa ttttatacat tttaattttt   180

atacatattt tttatattta attgcacaga tcattngggt atttattata ttaattgact   240

actttatgat aattngaatc ctaattagtc tattcaagat tgttttcctg gtttaagcct   300

tacttagcaa tctcactttt gcattcttcg ccgggtggcg tgggtatgca tcgcaactcc   360

gttttatcaa agngcaagcc atttggacaa tcataatggt aatttgccat ttgntggaac   420

caagaaacat tgnnaatatt tttntacaac tcttcgatcg gaaaaaacgt ttcacttttg   480

catgcagttt tgcaccgaga   500

<210> 523
<211> 118
<212> DNA
<213> Ctenocephalides felis

<400> 523

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ctgtattttt cttctggtca ttatgctgaa ttgcaagaac cttgttaatg ctgcgtgcac    60

caacaacgcg cctccaatga agatattccg tagccgaaga gttcttctcg gtgatggt    118
```

```
<210>   524
<211>   305
<212>   DNA
<213>   Ctenocephalides felis

<400>   524
cattgtggat gaggcaaatc ccatatacca tgatgaagtt tgcttgtttc gaaagaacag    60

ttgaattgtt atacactcat gtggttccca acccagagc agaatgcact aaaggtgaac    120

aattggttgt cacctttgct gctggttaca ttgccggtgt attctgtgca gtagtttctc    180

atcctgcaga cacagttgtt tccaagctaa atcaagacaa aggagcaaca gccattgacg    240

ctgccaaaaa acttggcttt gctggtttat ggaagggatt aggacctagg atcatcatga    300

ttggt                                                                305
```

```
<210>   525
<211>   304
<212>   DNA
<213>   Ctenocephalides felis

<400>   525
ctgataaatt gcctgcaaga atgagtttca gggaacgaaa agaatcggcc aaatgcatgc    60

aaaaggttgc attaaatata caactagcag cagccagagt ttcaactgat gttggcatta    120

aagtaggaga agccctcagg aatgtcgtgg aacttcgttt aaatttggga aaatgttctt    180

cagacaattt gaataaatgg gaatccagat tggaagaaat taatgatgtt gtggaaaatt    240

gcatcgtgtg aaattgtaac ttgaaataat ttttcttaac tattagtttt atagatgaac    300

aaat                                                                 304
```

```
<210>   526
<211>   386
<212>   DNA
<213>   Ctenocephalides felis

<400>   526
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt    60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacatttta    120

atatcaggaa catctctgat agcatgtgga gtgattgcat ctttatacc gaacatttat    180

cagaagcaag tggatagaag aacgagcatt gcttcatatg accataacc atatttccgt    240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca    300
```

```
gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt      360

tattagattc gatgtaagat atatgt      386
```

```
<210>  527
<211>  488
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (144)..(144)
<223>  n = unknown
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<220>
<221>  misc_feature
<222>  (249)..(249)
<223>  n = unknown
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<400>  527
aaacgattta tttttattaa aaagatacat gtaatttcat aaagcttcta tatttatata      60

tttggaaata atcagaaatt actatagtta atgacatttt gtttgtgctc cttacataaa      120

atacaatttt atacatttta attnttatac atattttta tatttaattg cacagatcat      180

ttgtgtattt attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt      240

caagattgnt ttcctggttt aagccttact tagcaatctc acttttgcat tcttcgccgg      300

gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat      360

aatgttttat ttgccatttg ttgttaacca agaaacattg ataatatttt tacaatctct      420

tcgatcggaa aaaacgtttc acttttgcat gcagttctgc acgagaaaga ttttgggtca      480

aaccattc      488
```

```
<210>  528
<211>  386
<212>  DNA
<213>  Ctenocephalides felis
```

```
<400>  528
atatatctta catcgaatct aataacaata aagagttatt aattttcatg tcgatgtttt      60

agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag      120

tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct      180

cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca      240

tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat      300

tcctacaaca ttgcttccaa caacacttcc taatcgaccc atcattaaag atatacatac      360
```

```
tgccattgcc ctgagttgtg tagggt                                              386
```

```
<210>   529
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   529
aataaatata atttattat ataagaaaca tatgtataac aatacaaatt ataactattt       60

aacagtcttc ttgtgataat ttcttgacgg ccgtatctgt agactttgat acaccttttt      120

tcggtaagct ccagaacacc tgatccctgc cgaatacgtg agcttcagtt agcgtttccg      180

gtaacttttg gtgtaaagtt tccggcaaga acattccgga agtcgcgccc accatcatca      240

ttacggaaag tacagcgtac ggatatctgg cgtcatatgt ggttcccaag tatacaatgt      300

atgggcctaa tactcctaat gcatttgaaa ctatagttcc aatggaaatt cctgtctgcc      360

tcaaacaggt tggatatgtt ttcattgctt gcagattcac aacataaaac gtgatgctta      420

tgcaaaattt cattaccacg ctaacagtg ggaccaaatt ctggagggat tcatcattgg      480

caatgcatat aagaatgg                                                      498
```

```
<210>   530
<211>   451
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (124)..(124)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (149)..(149)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (198)..(198)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (229)..(229)
<223>   n = unknown

<400>   530
tttttttttt tttttttttt tttttccga caattttact tgtatttatc ttaaacatat       60

ttacagtatt tcctcaaaaa ctgttaaata caataagtta acttaaatac atggatgttc      120
```

```
tganaatgtg gatgagctca agattgtana actgagtttg atctacacaa tttttgccta      180

aaaggttcga ctactcanaa agcagccacc cgtgattcca taccgcctna catttgacaa      240

taaaatatat gtataatgtt aaataggatt ttaatggaaa aaagccaatt taatacttta      300

gcattatgaa tatgtatttc caaattattc tataacgaat ttaacctaaa atacaagaaa      360

tacatattca taaatataca tatattttaa tacaaaaagg taacttgtgc aaaaatgaaa      420

ttcaaataca cttggttttg ctaatttaaa t                                    451
```

```
<210>   531
<211>   204
<212>   DNA
<213>   Ctenocephalides felis

<400>   531
ggacggccga ctcgtccgaa ttatgctcgg cacgtgttcg attcaaatga tcccgctacg      60

ttcgacatcc aaatgataaa cactatctaa tcaagtgatg ttgtttaatt aagcaagtgt     120

tagttcgaat tcatttttgt gttttgtgta tattataata aatggacccc gaaattcctc     180

tgaaaggtgt gactccgggt ttgt                                            204
```

```
<210>   532
<211>   500
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (100)..(100)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (178)..(178)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (243)..(243)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (359)..(359)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (448)..(448)
<223>   n = unknown
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<400> 532

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tttttttttt tttttttttt ttttttttaat ttcataaagc ttctatattt atatattta      60

aataatcaga aattactata gttaatgaca ttttgtttgn gctccttaca taaaatacaa     120

ttttatacat tttaattttt atacatattt tttatattta attgcacaga tcatttgngt     180

atttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat     240

tgntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg     300

tgggtatgca tcgcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatgnt     360

ttatttgcca tttgttgtta accaagaaac attgataata ttttttacaa tctcttcgat     420

cggaaaaaac gtttcacttt tgcatgcngt tctgcacgag aaagattttg ggtcaaacca     480

ttcgtggacg tcgcttcaca                                                 500
```

<210> 533
<211> 204
<212> DNA
<213> Ctenocephalides felis

<400> 533

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aaacccggag tcacaccttt cagaggaatt tcggggtcca tttattataa tatacacaaa      60

acacaaaaat gaattcgaac taacacttgc ttaattaaac aacatcactt gattagatag     120

tgtttatcat ttggatgtcg aacgtagcgg gatcatttga atcgaacacg tgccgagcat     180

aattcggacg agtcggccgt ccgt                                           204
```

<210> 534
<211> 288
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (66)..(66)
<223> n = unknown

<220>
<221> misc_feature
<222> (152)..(152)
<223> n = unknown

<220>
<221> misc_feature
<222> (266)..(266)
<223> n = unknown

<400> 534

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tttttttttt tttttttttt tttttttttct ttcatttatt actataaata tcaatgagtc    60
```

```
ttaatntacc attacagtat taagtacatt ttcataatac tacgaaacca atagttcatt      120

atgtataact ctcttatata tgaatttctg anaaagttta tatgccagct tcttataata      180

attacaaaat atatttttca gccaattcca tcaatctgtc ggtcatgatt tctcgaaaat      240

gttcatcgtt attccaggct ttgtanagaa tggcttctct gtctccca                  288
```

<210> 535
<211> 173
<212> DNA
<213> Ctenocephalides felis

<400> 535
```
tttctttagt ggtgcactgt agatatccac tttgatcagc gcgcacttga tctgggctac       60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc      120

acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt            173
```

<210> 536
<211> 143
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (5)..(5)
<223> n = unknown

<220>
<221> misc_feature
<222> (40)..(40)
<223> n = unknown

<400> 536
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taatnaattt taaaaaatta aggatagaaa ccaacctggn ttaaaccggt ttgaactcag       60

atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta      120

tcttaatcca acatcgagga cgc                                             143
```

<210> 537
<211> 462
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (62)..(62)
<223> n = unknown

<220>
<221> misc_feature

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<222>  (455)..(455)
<223>  n = unknown

<400>  537
ataaaaccaa ttcggtaagg tgcaataact ttatcatttg aatgcccatc gtgatgctgg      60

gngttccata cagaattcac agtcgtattt ttaccctcag gacaaccttc agtcgacata     120

tttaggtaag gaaacttcaa attaccttga gcaatgttaa tttgggctcc acttaccatc     180

caactgacca ggattagact tgctgcagct cccaccaaaa ctccctttgt gtttgcttta     240

gggaacaaga ttcccaatgt aaacattccc aaaagggttc ctgcagtaac tccagtgaca     300

ctaatgacca aatgcatgac gcttcctaat tgttctacta caaagacaag tccgaggcaa     360

attcctccaa ttactactac agtcagcttc ataatattac tggcagtctt ctcactagtg     420

gtaactgggt aaccattcct taataaaatc ttcgntaaag tg                        462


<210>  538
<211>  498
<212>  DNA
<213>  Ctenocephalides felis

<400>  538
aataaatcat ggtctgaaga gacaaataag attgaaagtc aaataatacc ttgtcagcat      60

ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactgggtt     120

tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata     180

ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta     240

agtctcatca caatcgtcac cggaagacta attacagcat ttacttccag ttggtttatt     300

gtttttataa cagcggcttt tcttggttca ctaacatcta catctgtttt tcaaagccct     360

tcgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag     420

tccatcgggt ggaccagtgg aatgattctt atgccgttac tgatgtgggc gacgcgagat     480

tggtttatct ttgctttg                                                   498


<210>  539
<211>  172
<212>  DNA
<213>  Ctenocephalides felis

<400>  539
cgaaacccga caaaaatgta aaaaagtaaa atttagttgc gtgaattcgt gcagttcacc      60

cgaaatgcag tattgtccgg aaataggagc agatccggtt aaggaatcct gtagcccaga     120

tcaagtgtgc gctgatcaaa gtggatatct acagtgcacc actaaagaaa gt             172
```

<210> 540
<211> 352
<212> DNA
<213> Ctenocephalides felis

<400> 540
gacaatctaa taagggccac atcatgttcg aaagatgtaa agttggtgtc aaagtcggga   60

tgtaataaat aaaaattggc atccacaatt ataccagcgt aataagccct aaagctgcca   120

actcgaactt gaacttgttt ttcgttgcgg acatttttga agcattgagc aacagtgagc   180

acaaaatatc tactaactat gactcctcca caaatatgat cacctctata taaaacagat   240

gccacgtaag gtaattcgct gatgtcagca ggctttcctc cgatcatacg agaatcggtc   300

aaattttttgc tttctgctcc agaaaataat acaataaaga aaattgcaaa gt   352

<210> 541
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 541
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ggttatgaat atgacagaac atggtattta tcaacggctc cgtcagatca agactgggtt   120

tgtgatagag aactctatgt aactaataca tttgctattg gacgtgcagg cgaagtcata   180

ggcacattta tttttggaca attaggagat aggattggaa gaagaccagt attttactta   240

agtctcatca caatcgtcac cggaagacta attacagcat ttacttccag ttggtttatt   300

gtttttataa cagcggcttt tcttggttca ctaacatcta catctgtttt tcaaagccct   360

ttgataattg cgatggaaat atccagaagt gaagatagag cacacattgc catgatgcag   420

tccatcgggt ggaccagtgg aatgattctt atgccgttct gatgtgggcg acgcgagatt   480

ggtttatctt tgctttgg   498

<210> 542
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<223> n = unknown

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tggaaancta aaaaatgtaa tcaaacgtat tgcaattata tacattatta ttaaatgtaa   120

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cactttattt aaatataaat cattaaaata ttaaaaatat attttataca tctcatagaa      180

tagtgccaag catttacaat ctctcaaatc acaccttcac cttttttcta aattataaaa      240

caaccaaaga aaaactaaga ttctgtcaag catgagaaaa tcttaatgta acacactaac      300

tcgaaacctt ttaagattat taatctgtga ctctaaataa ttgcagtaat tttggaatga      360

attttatag ataattggaa agagatcaaa gggaaagttt attgcaataa caacaatgaa        420

ttataacttg agacttgtta aaaagacctg tatctacttg ccggggctgt tgaaatatga      480

gccacaggtt tctggcattg                                                  500
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aggattcttt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc      120

acgaattcac gcaactaaat tttacttttt tacattttg ctcgggtttc ggt            173
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<210>   544
<211>   491
<212>   DNA
<213>   Ctenocephalides felis

<400>   544
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catgcaaaag tgaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt       120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180

ataaaacgga gttgcgatgc atacccacgc cacccggcga gaatgcaaa agtgagattg       240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt      420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt      480

aaaaaaaaaa a                                                          491
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<210>   545
<211>   500
<212>   DNA
<213>   Ctenocephalides felis
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<400> 545

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tactatagtt aatgacattt tgtttgtgct ccttacataa aatacaattt tatacatttt     120

aattttata catattttt atatttaatt gcacagatca tttgtgtatt tattatatta     180

attgactact ttatgataat ttgaatccta attagtctat tcaagattgt tttcctggtt     240

taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcatcg     300

caactccgtt ttatcaaagt gcaagccatt tggacaatca taatgtttta tttgccattt     360

gttgttaacc aagaaacatt gataatattt tttacaatct cttcgatcgg aaaaaacgtt     420

ttcacttttg catgcagttc tgcacgagaa agattttggg tcaaaccatt cgttgacgtc     480

gtcttcacat ttcagacgat                                                  500
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<210> 546
<211> 386
<212> DNA
<213> Ctenocephalides felis

<400> 546

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agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag     120

tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct     180

cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca     240

tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat     300

tcctacaaca ttgcttccaa caacacttcc taatcggccc atcattaaag atatacatac     360

tgccattgcc ctgagttgtg tagggt                                           386
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<210> 547
<211> 500
<212> DNA
<213> Ctenocephalides felis

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<220>
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<223>  n = unknown

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<222>  (470)..(470)
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<220>
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<223>  n = unknown

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ataatcngaa attactatag ttaatgacat tttgtttgtg ctccttacat aaaatacaat       120

tttatacatt ttaattttta tacatatttt ttatatttaa ttgcacagat catttgngta       180

tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt       240

gntttcctgg tttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt       300

gggtatgcat cgcaactccg ttttatcaaa gtgcaagcca tttggacaat cataatgntt       360

tatttgccat ttgttgttaa ccaagaaaca ttgataatat tttttacaat ctcttcgatc       420

ggaaaaaacg ttttcacttt tgcatgcagt tctgcacgag aaagattttn ggtcaaacca       480

ttcgttgacg tcgncttcac                                                   500


<210>  548
<211>  220
<212>  DNA
<213>  Ctenocephalides felis

<400>  548
tgaaggtccc agacccatac accagattag aggtgatgat gacttgcgat cgtcatatgc        60

atccatgcgg tctggggggcc gagattcagg ccttggaggt ctaggtagag atcacagaga      120

ccatcgtgac tcagaccagg attcatggat gggtggtttg ccattgaaac tgagaggcat       180

taatgacatg ttcaatggac taaatgtgtc tagtcccagt                             220


<210>  549
<211>  223
<212>  DNA
<213>  Ctenocephalides felis

<400>  549
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cacggccgag gggttcagag ttgtcagtct taactgtgaa ggaacctcct gcggaagatt      60

cccaaaggta ttgttcatca tcattgtgct tagatgtgac cgtgacttta tcagcaacga     120

gataggccga gtagaaacca acaccaaatt gaccaatcat actaatatcg gctccagctt     180

gtaaggcttc catgaaggct ttagttccag acttcgcaat tgt                      223
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<210>    550
<211>    336
<212>    DNA
<213>    Ctenocephalides felis

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cagggaacga aaagaatcgg ccaaatgcat gcaaaaggtt gcattaaata tacaactagc     120

agcagccaga gtttcaactg atgttggcat taaagtaggg gaagccctca ggaatgtcgt     180

ggaacttcgt ttaaatttgg gaaaatgttc ttcagacaat ttgaataaat gggaatccag     240

attggaagaa attaatgatg ttgtggaaaa ttgcatcgtg tgaaattgta acttgaaata     300

attttcctta actattagtt ttatagatga acaaat                             336
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<210>    551
<211>    131
<212>    DNA
<213>    Ctenocephalides felis

<400>    551
cttttgcatg taggatccaa tggatcgcga aatagtccaa ctcttggaca aatgaatggt      60

tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc     120

aaagacaatg t                                                         131
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<213>    Ctenocephalides felis


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attttcatat tgngccctaa taagatttat acttaaaaca ataaaaaatg cgttttatta   180

aaagttgcaa gcagttaaat aaaatgntga ataaataata gtgataaatc attgcataat   240

gatgcaactc ataattatta agtaaattgg ctataacaac tactacatta tcagatctat   300

ccgcacttct taatattcaa taatattatg gntatcaggc ctcttatcac tttatagatt   360

tttaattaat ctatttaata ttaaatnaaa aattaattta aaaccnttaa accgatcatt   420

gctttaaatg gaataaatcc cataccctta ttaagcctgg tgnaatatgc catagccatt   480

tcatatacca ctccttagga   500

<210> 553
<211> 540
<212> DNA
<213> Ctenocephalides felis

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<222> (389)..(389)
<223> n = unknown

<220>
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<222> (405)..(405)
<223> n = unknown

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<222> (408)..(408)
<223> n = unknown

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<223> n = unknown

<400> 553
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ttcataaagc ttctatattt atatatttta aataatcaga aattactata gttaatgaca   120

ttttgtttgt gctccttaca taaaatacaa ttttatacat tttaatttt atacatattt   180

tttatattta attgcacaga tcatttgtgt atttattata ttaattgact actttatgat   240

aatttgaatc ctaattagtc tattcaagat tgntttcctg gtttaagcct tacttagcaa   300

tctcactttt gcattcttcg ccgggtggcg tgggtatgca tcgcaactcc gttttatcaa   360

agtgcaagcc atttggacaa tcataatgnt ttatttgcca tttgntgnta accaagaaac   420

attgataata ttttttacaa tctcttcgat cggaaaaaac gttttcactt ttgcatgcag   480

ttctgcacga gaaagatttt gggtcaaacc attcgttgac gtcgncttca catttcaagt   540

<210> 554
<211> 387
<212> DNA
<213> Ctenocephalides felis

<400> 554
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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

aaaaaaaaaa aaaaaaaaaa aaaaaaa   387

<210> 555
<211> 510
<212> DNA
<213> Ctenocephalides felis

<400> 555
gaggagactt tgtttaccgt aatggacaac cattcgaaat tccaaaagga aatttactat   60

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tgaatgatta aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta      120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat      180

agattttgaa taataacata gaaattatac tatttttttg atgactctaa taaaaaaaat      240

gtataaatgg ccatgcctga tatatttttg ataaccttaa tgaaaaaatg tttaaatggc      300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa      360

aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca    · 420

tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaatg tatacgaaat       480

ataacttata tgatatatga aaaaaaaaaa                                       510
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<211>   345
<212>   DNA
<213>   Ctenocephalides felis


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atttttatac atatttttta tatttaattg cncagatcat ttgngtattt attatattaa    180

ttgnctactt tatgataatt tgaatcctaa ttagtctatt caagattgtt ntcctggttt    240

aagccttact tagcaatctc acttttgcat tcttcgccgg gtggcgtggg tntgcntcgn    300

aactccgntt tatcaaagtg caagccattt ggacaatcat aatgt                    345


<210>  557
<211>  262
<212>  DNA
<213>  Ctenocephalides felis


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<222>  (171)..(171)
<223>  n = unknown

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ttacaattat ataaatgttt ccgctatgga gaatatcagt ttatcatatt tataattata    120

aaatattcaa taataatgaa ctatttaaca aatgaaccat tttagtattg naaaaatatg    180

aaactctctt ctaaacctta cgaataaatg cttttcaatg aacaagccga attgaaatgc    240

acatttgngg aatataaata gt                                             262
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<210> 558
<211> 578
<212> DNA
<213> Ctenocephalides felis

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<222> (238)..(238)
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<222> (372)..(372)
<223> n = unknown

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<223> n = unknown

<400> 558
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atttattttt attaaaaaga tacatgtaat ttcataaagc ttctatattt atatatttta   120

aataatcaga aattactata gttaatgaca ttttgtttgn gctccttaca taaaatacaa   180

ttttatacat tttaattttt atacatattt tttatattta attgcacaga tcatttgngt   240

atttattata ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat   300

tgntttcctg gtttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg   360

tgggtatgca tngcaactcc gttttatcaa agtgcaagcc atttggacaa tcataatgnt   420

ttatttgcca tttgttgtta accaagaaac attgataata ttttttacaa tctcttcgat   480

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attcgttgac gtcggcttca catttcagtc cttgggcg   578

<210> 559
<211> 671
<212> DNA
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<400>  559
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ttgatgttac atttttacaa taataccaag taaaataatg acttcattca tataataaag     120

ggtttaatac gccgatttaa aaacagacat cttatacaaa attaaaatgg ctgctgntaa     180

attatagaat atcttttgat ttaaacaaaa tctaaatagt acataaaact ggacattact     240

tccattatat atatagatat atacatatgt atgttaatgt atatatacat aaatacatat     300

agaatcaaac aatatcacaa actgttgatt tgaataagtt gctattcata aaattatgtt     360

ttcgcattta gtacattttt tgtatgtgct taagatgtat ataaacacat atttgntaat     420

tagtaaaaat taacataagc ttgagacatt attaggtgct actaaaattg ataaatattt     480

acataaatta aaacaatttc aattcttata tgtgtggnag taacttcaaa atctgnggaa     540

atattggtta aattggtact ggnctgnaaa taatttacta aacagaaatt atattgactc     600

ctatctggca ttggcttctt aaccatttta aatttaattt acttaatctc ttcagaaata     660

gcttaataag g                                                         671
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<210> 560

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<211>  491
<212>  DNA
<213>  Ctenocephalides felis

<400>  560
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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

aaaaaaaaaa a                                                          491
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<210>  561
<211>  431
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<220>
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<220>
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<222>  (264)..(264)
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<223>  n = unknown

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natgaaataa ttaatgaacg actttaggat aattatttat atacattttt ataagaaaag     120

actcattatt ttataagtat ttaaatttca aaatcaagtt tttgggatgg agcagaagaa     180

taaatatatt tattatatcg cccgactgtt atacgatgag attttcttat gaaagtggtt     240

ccctggtcgt gttaggcaaa aatngacaca tnagaccacc ttcagccaat agtagtgctc     300

aataaatgtc ggggctggac aatacatgtc taataaagnt gcaattccac attgncaatt     360

atgccttcaa gtcgagcagg tccatagata ttggcacacc agtagccctc aaatttggtg     420

gaaacccttg g                                                         431


<210>  562
<211>  348
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (144)..(144)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (194)..(194)
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<400>  562
tttttttttt tttttttttt tttttttcat tatatttcta atctaatatc cccaaatttc      60

aactaagaag ttaaatcctt tgccagtctg agaagatagg agtaaagtta cattttttcca    120
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gccaactcca ccattgacaa gagnggcata gcctccttgg ccatttacat attggtccag    180

ggcacgaaca cagntaattg tgcgattatt tctcgatccc actggtggaa atgacacctn    240

tctagtaact ttcctgaaaa agcttccact tttggattgg acttgacggt acagcaacac    300

gtttccataa cttgggtatc ctacttgaaa gtgatgacta ttgttagt                348
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<210>    563
<211>    584
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (161)..(161)
<223>    n = unknown

<220>
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<222>    (197)..(197)
<223>    n = unknown

<220>
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<222>    (262)..(262)
<223>    n = unknown

<220>
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<222>    (462)..(462)
<223>    n = unknown

<220>
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<222>    (515)..(515)
<223>    n = unknown

<400>    563
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cattgacggc attaacattt tttacctatg agtatgtaca tatatcttac atcgaatcta    120

ataacaataa agagttatta attttcatgt cgatgtttta naaaatgatt cagtagcaac    180

ttctgaattt tctttgnaat tgataatact ttctcaaagt ataattgcat ttcacaacac    240

acgacggaaa tatggttatg gnccatatga agcaatgctc gttcttctat ccacttgctt    300

ctgataaatg ttcggtataa agaatgcaat cactccacat gctatcagag atgttcctga    360

tattaaaaat gttaaatcgc aattataatc tagaattatt cctacaacat tgcttccaac    420

aacacttcct aatcgaccca tcattaaaga tatacatact gncattgccc tgagttgtgt    480

agggtcagat ctactaatgc cgcgtttacc actgncacag caattccgca aaccagcaac    540
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cacaaatata aatatgatgc tattggtaaa tggtcaataa atgc                      584


<210>   564
<211>   491
<212>   DNA
<213>   Ctenocephalides felis

<400>   564
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

aaaaaaaaaa a                                                          491


<210>   565
<211>   173
<212>   DNA
<213>   Ctenocephalides felis

<400>   565
cgaaacccga gcaaaaatgt aaaaaagtaa aatttagttg cgtgaattcg tgcagttcac      60

ccgaaatgca gtattgtccg gaaataggag cagatccggt taaggaatcc tgtagcccag     120

atcaagtgtg cgctgatcaa agtggatatc tacagtgcac cactaaagaa agt           173


<210>   566
<211>   665
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (413)..(413)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (582)..(582)
<223>   n = unknown

<400>   566
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taagttgtcc ctaaattctt tcaaggctcc ccttgcgcat tttccgactt cacggactaa      60

gttgcccaat tgggaccagg tttctttgag tgccttggcc aagtcttttg ctccttcgtg     120

ggcagcttgg agaacccctt tcaagcaaac tctggcttca tcgacatcgg ctgcggtcac     180

aacgcactcc ttggcttgtg ctctgagggc ttcggcgttc tccctggctt ctctccaggc     240

ggccaagcca ttttggcgaa cttggttgaa ttcatcacgt ttgtcatctc tgcaagcctt     300

gaccttagca cgggcttctt gtgcgtagcc tagagctttt tggtgttggc ctttaaggca     360

ttcctttgcg gcttcactca cttttttgct aagtttcctt tcaacttctt tgntgaacct     420

ctccaaatct ctatcgactt caggggcaaa tccttggttt tcgaattcag cggcaatcat     480

atcaattttg ctatcttggc taattcttgc aatgctggtc tcatattcag cagagatgtc     540

atctaccatc ttatctaaga cggcatcttg gtcgaaaaaa gncttgtgca agccctataa     600

aagccaatga tggcaagagc aacaaacact ttggacacca tttttgaaat gattaattca     660

caata                                                                  665
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<210>    567
<211>    476
<212>    DNA
<213>    Ctenocephalides felis

<400>    567
taaagcttct atatttatat attttaaata atcagaaatt actatagtta atgacatttt      60

gtttgtgctc cttacataaa atacaatttt atacatttta atttttatac atattttta     120

tatttaattg cacagatcat ttgtgtattt attatattaa ttgactactt tatgataatt     180

tgaatcctaa ttagtctatt caagattgtt ttcctggttt aagccttact tagcaatctc     240

acttttgcat tcttcgccgg gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg     300

caagccattt ggacaatcat aatgttttat ttgccatttg ttgttaacca agaaacattg     360

ataatatttt ttacaatctc ttcgatcgga aaaaacgttt tcacttttgc atgcagttct     420

gcacgagaaa gattttgggt caaaccattc gttgacgtcg tcttcacatt tcaagt        476
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<210>    568
<211>    172
<212>    DNA
<213>    Ctenocephalides felis

<400>    568
cgaaacccga caaaaatgta aaaaagtaaa atttagttgc gtgaattcgt gcagttcacc      60

cgaaatgcag tattgtccgg aaataggagc agatccggtt aaggaatcct gtagcccaga     120

tcaagtgtgc gctgatcaaa gtggatatct acagtgcacc actaaagaaa gt             172
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<210>   569
<211>   466
<212>   DNA
<213>   Ctenocephalides felis

<400>   569
aagcaagttt tcttgggtgg agttgacaag aagacccaat tctggcgtta cttcgcagga   60

aacttggcat ctggtggtgc tgctggagcc acatcattgt gcttcgtcta cccacttgat   120

ttcgcccgta ccagattggc cgctgatgta ggtaaaggcg ctggtcaacg tgaattctct   180

ggattgggca actgcttgac caaaatcttc aagtctgatg gtctccctgg attgtaccgt   240

ggttttggag tatctgttca aggtatcatc atctaccgtg cagcatactt tggattctat   300

gacaccgctc gtggaatgtt gccagacccc aagaacaccc cattagttat cagctgggcc   360

attgcacaag ccgtcgcaac tgttgctggt attgtgtcat atccattcgg cactgtccgt   420

aggcgtatga tgatgcagtc tggacgtgca aagtcagaaa tgttgt   466

<210>   570
<211>   221
<212>   DNA
<213>   Ctenocephalides felis

<400>   570
tatataatct gattctcgat ttgtatcttc ataactgatt ctcagatatc cattaccgga   60

atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat   120

gacatgtctg aattttattt taccatcaac taaagattcc atgtgagctc ttgcgcaagt   180

tccatctcgt tcaaaatgat tttggtatct atattgttcg t   221

<210>   571
<211>   365
<212>   DNA
<213>   Ctenocephalides felis

<400>   571
tttctttagt ggtgcactgt agatatccac tttgatcagc gcacacttga tctgggctac   60

aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc   120

acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggtacaggtg   180

taggttcagg agtaggtact actcctggtg cgggctcatc caatgatgca aatacttctt   240

tatttactgt taaaggcgtt ccgtcgacat taaactcacc atcataagcg gtaacgacag   300

ataacgccac aaaactaata aaaccaatg tgatataaaa cattctaata aatatgttac   360

ccagc   365

<210> 572
<211> 112
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (58)..(58)
<223> n = unknown

<400> 572
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caatcgcaat gcaaaggttt gctgtctcac aatcctggca ctttatttct cc   112

<210> 573
<211> 210
<212> DNA
<213> Ctenocephalides felis

<400> 573
ggaagcacct taggctgtgc aggacatgta actgtatagc attttgtgcc cagagccata   60

ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattgggtt   120

cctatactat tttcgtcaca ataataatag ctttgacaat catttatatt tggataaaat   180

ctcgatggtg acggacattt gaaaccttgt   210

<210> 574
<211> 269
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (59)..(59)
<223> n = unknown

<220>
<221> misc_feature
<222> (66)..(66)
<223> n = unknown

<220>
<221> misc_feature
<222> (87)..(87)
<223> n = unknown

<220>
<221> misc_feature
<222> (117)..(117)
<223> n = unknown

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<400>   574
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacana      60

tataantatg atgctattgt taaatgntca ataaatgcac aaattattcc acaaatnccg     120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct     180

attatgggaa atccaatcgc atatccagct tccaacatta agaatgcat aaatgcctgt      240

tcttccattg tgtctttaca ctcggtcgt                                        269
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<210>   575
<211>   425
<212>   DNA
<213>   Ctenocephalides felis
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<400>   575
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtccggtg cataggtgta      60

taaaagaatt gggatttgtg catttcatga cggtgcaatc agcttctgac gatttctttt     120

tacacatatt tttagaatga tcatatacat agttaggtgg gcattcgaaa acctgacctt     180

taccatcttt gcagaataag tatcttgtgc agtctttcgg atctggctga tatcctacaa     240

ccgcgcatgt agtttctgcc gtcttacagt ttttccccagg ttttgatgag cacatatcat    300

ctacacaaaa tggagcatcg gaatttgagt ctctgcaatt gattgttgta attggggttt     360

cttgtccagc gcacaacttc aaagtagaaa caatcgtgac aaaatgttcc caactgctta     420

ttagt                                                                  425
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```
<210>   576
<211>   422
<212>   DNA
<213>   Ctenocephalides felis
```

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<400>   576
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtccggtg cataggttat      60

aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt     120

acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt     180

accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac     240

cgtgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc     300

tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttggggtttc     360

ttgccagcgc acaacttcaa agtagaacaa tcgtgacaaa atgttcccaa ctgcttatta     420

gt                                                                     422
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<210>    577
<211>    418
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (15)..(15)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (56)..(56)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (58)..(58)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (65)..(65)
<223>    n = unknown

<220>
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<222>    (93)..(93)
<223>    n = unknown

<220>
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<222>    (130)..(130)
<223>    n = unknown

<220>
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<222>    (187)..(187)
<223>    n = unknown

<220>
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<222>    (200)..(200)
<223>    n = unknown

<220>
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<222>    (213)..(213)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (354)..(354)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (363)..(363)
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<223> n = unknown

<220>
<221> misc_feature
<222> (365)..(365)
<223> n = unknown

<220>
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<222> (392)..(392)
<223> n = unknown

<400> 577
aagctttttt ttgtntttac tttttttttt tttttattta ttgaaattca tttatngnct   60

ataangaaaa tttcacatat ttatattcat aantttacta catttctaag ccttcattat   120

aatacccggn gcctgcagct ccactagttt tacttgcatt agaattaata ttgtttggat   180

aatcgtnatt tttaatactn ggatttgtat tanttaaatt tttggcccat ggctgcactt   240

tgccggatgc aaaaaaccaa tatatcacag ctcctaacaa atatattcca cttgaaatgt   300

aaaatacaat ttgccacgat gtgagtaaat catctccaac ctttccatta acantgaaac   360

cantnaattg agggctgatt attcctggca angttgcaaa agtatttgac aatcccat   418

<210> 578
<211> 423
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (251)..(251)
<223> n = unknown

<400> 578
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtccggtg cataggttat   60

aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt   120

acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt   180

accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac   240

cgcgcatgta ntttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc   300

tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttggggtttc   360

ttgtccagcg cacaacttca aagtagaaca atcgtgacaa aatgttccca actgcttatt   420

agt   423

<210> 579
<211> 308

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<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (58)..(58)
<223>  n = unknown

<400>  579
atatctagcc aatattgcaa aattcttatc agtgcatgtg aaagaaaaac tattattntc      60

gaaaatatat caatattatt ataagtaaag aaattgtcat tccgaatgaa cttctgaggt     120

ctaaagaccc attacacaag tcagtgtcgc acatggtgca atttagatcc cgggctcctt     180

tatttgttaa atctttcttt atttcttcac atgtgactcg ggcagggaca cattctctaa     240

tcacaccttt ttcaatcatg gatttataga aaactctttc tccgatgtct gttgtacact     300

agcgatta                                                                308
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<210>  580
<211>  429
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (298)..(298)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (374)..(374)
<223>  n = unknown

<400>  580
acccggtatg aaaaggaaag tgcttttacg tccaaaccgt ggagtttcca atatgccaca      60

tgtcattatt cgtttactat cttatcctt aatatttata gcactgtcgt ataattctt      120

tgtaaaatga gccatatctc tgttgagagt cataccgtaa tcatatcgac attgatatga     180

ttctccacat aaatcttcag cacgattgat gtcgctactt ctgtttgatg aagaaaatc     240

tttaggttct ttaacccagt ttggtataaa tgaggaattt gcataataac tggctgtncg     300

accaaattca cgagtgaaga gtgccgctcc gaggtgttca ttttcacgat ccgcagcatc     360

cagtgacgtg cganatcttt atgaacagat tcaaaactat tgagattaac aggcacaaaa     420

gttccatca                                                               429
```

```
<210>  581
<211>  498
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<212> DNA
<213> Ctenocephalides felis

<400> 581
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atgacttacc tgaaaacacg acctccaagt atggaagtaa atgctattga tatgattata     60

gacctcacaa aaaaatataa agttaggtct cacatagtgc atctatcagc agcaggtgct    120

ttaccgcaat tgaaaaaagc gcgctcagag aacgttccac tttcgattga aacttgtcat    180

cattacttaa cctttgctgc tgaagatgtt ccagatggac atactgaata caaatgcgct    240

ccaccaatta gagaagaaag taatcaagaa aaattatggc aagctttgga aaacggagat    300

attgatatgg tagtcagtga tcattctcca tcacctgctg cactgaaagg cctgtgcaat    360

ggttgcatcc tgatttccta aaagcttggg gtggaattgc tggtatgcag tttggattat    420

ctttattatg gaccggtgct tctaaaagag ctttaaagct catgatgtat ctcgtttatt    480

atctgcggga cctgcgaa                                                  498
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<210> 582
<211> 486
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (391)..(391)
<223> n = unknown

<400> 582
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tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg     60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt    120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg    180

ataaaacgga gttgcgatgc atacccacgc cacccggcga gaatgcaaa agtgagattg    240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc    300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa    360

tatgtataaa aattaaaatg tataaaattg natttatgt aagggagcac aaaccaaatg    420

tcattaacta tagtaatttc tgattatttta aaatatataa atatagaagc tttataaaaa    480

aaaaaa                                                              486
```

<210> 583
<211> 393
<212> DNA
<213> Ctenocephalides felis

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<220>
<221>  misc_feature
<222>  (350)..(350)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (370)..(370)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (391)..(391)
<223>  n = unknown

<400>  583
ccgtcgtgtg ctggaattcg gcttcgagcg gccgcccggg caggacgatc ggttgcaatt      60

tgtcattgca ccaagcataa attgatgggt ccggtgcata ggttataaaa gaattgggat     120

ttgtgcattt catgacggtg caatcagctt ctgacgattt cttttacac atatttttag      180

aatgatcata tacatagtta ggtgggcatt cgaaaacctg acctttacca tctttgcaga     240

ataagtatct tgtgcagcct ttcggatctg gctgatatcc tacaaccgcg catgtagttt     300

ctgccgtctt acagttttcc ccaggttttg atgagcacat atcatctacn caaaatggag     360

catcggaatn tgagtctctg caattgattg ntg                                  393


<210>  584
<211>  325
<212>  DNA
<213>  Ctenocephalides felis

<400>  584
actgtagtct cgtgaaattt gtttattaaa atccgaaagt aatggataat tcaaaccacc      60

taagccgcct acttttctat ccatgttaat ccatgctaag tggctaaaat gtgaatccgt     120

tgagcatcca acaacctcag caccgatttc ccgaaactgg cctattgcat cactataagc     180

acgaatctcc gttggacaga caaaagtaaa atctaagggg tagaagaaca ataccaaata     240

tttgcctttta taatctgtta agctgatctt cttaaaatca ccattgacaa ctgccatacc     300

ttcaaaatga ggggctggac tttgt                                           325


<210>  585
<211>  0
<212>  DNA
<213>  Ctenocephalides felis

<400>  585
000
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```
<210>  586
<211>  423
<212>  DNA
<213>  Ctenocephalides felis

<400>  586
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtccggtg cataggttat      60

aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt     120

acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt     180

accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac     240

cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc     300

tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttggggtttc     360

ttgtccagcg cacaacctca aagtagaaca atcgtgacaa aatgttccca actgcttatt     420

agt                                                                   423


<210>  587
<211>  0
<212>  DNA
<213>  Ctenocephalides felis

<400>  587
000

<210>  588
<211>  422
<212>  DNA
<213>  Ctenocephalides felis

<400>  588
gatcggttgc aatttgtcat tgcaccaagc ataaattgat gggtccggtg cataggttat      60

aaaagaattg ggatttgtgc atttcatgac ggtgcaatca gcttctgacg atttcttttt     120

acacatattt ttagaatgat catatacata gttaggtggg cattcgaaaa cctgaccttt     180

accatctttg cagaataagt atcttgtgca gtctttcgga tctggctgat atcctacaac     240

cgcgcatgta gtttctgccg tcttacagtt ttccccaggt tttgatgagc acatatcatc     300

tacacaaaat ggagcatcgg aatttgagtc tctgcaattg attgttgtaa ttggggtttc     360

ttgccagcgc acaacttcaa agtagaacaa tcgtgacaaa atgttcccaa ctgcttatta     420

gt                                                                    422


<210>  589
<211>  498
<212>  DNA
<213>  Ctenocephalides felis
```

```
<220>
<221>  misc_feature
<222>  (443)..(443)
<223>  n = unknown

<400>  589
aacagttgca tgaactttgc ccttcaacgt cattcctaag tatggtgttt ctttattctt      60

gtgttggatt atgtctttag tgaccttaaa ttcttcctca ggatcccaaa ttactaaatc     120

agcatccaag ccttctttga tttgtccttt tatgccatcc agtccagtta atttcgcagg     180

tcccgcagat aataaacgag atacatcatg agctttaaag cctctttttag aagcaccggt    240

ccataataaa gataatccaa actgcatacc agcaattcca ccccaagctt ttaggaaatc     300

aggatgacaa ccattgcaca ggcctttcag tgcagcaggt gatggagaat gatcactgac     360

taccatatca atatctctgt tttccaaagc ttgccataat tttttttgat tactttcttc     420

tctaattggt ggagcgcatt tgnattcagt atgccatctg gaacatcttc agcagcaaag     480

gttaagtaat gatgacaa                                                    498
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<213>  Ctenocephalides felis
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tgaatgatta aatgtaatag attaatcaaa ttttagatta ttaaaattgg tctattacta     120

cagtagcaac ctcagcctga aaattaaccg aacaaatttc taacccttat caatgtatag     180
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attttgaaaa ataacataga aatactattt ttttgatgac tgtaataaaa aaatgtataa      240

atggccatac ctgaaaagat ttctatgtgt attttttatt acctttttatt gctgaatgga     300

taaaagataa ctacaatttc ataagctctt ggattaaatt aattttgaat aaatccataa      360

ttataaaata tgttaagtag canattgaaa tatggaacta caaaatgtat acgaaatata      420

acttatataa tannaaatgg acncnccctg aaaaaaaagc ttg                        463
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<213>   Ctenocephalides felis


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ttacagnatt tcttnaaaaa ctgtcaaata caataagtta acttaaatac atggatgttc     120

tganaatgtg gatgagctca anattgtana actgagtttg atctacacaa ttttttgccta    180

aaaggttcga ctactcanaa agcagccacc cgtgattcca taccgcctcg catttgagaa     240

taaaatatat gtataangtt aaataggatt ttaatggaaa aaagccaatt taatacttta     300

acattatgaa tatgcatttc caaattattc tataacgaat ttaacctaaa atacaagaaa     360

tacatattca taaatatnca tatattttaa tacaaaangg taacttgtgc aaaaatgaaa     420

ttcaaataca cttggttttg ctaatttaaa ttggttttan attttctctt ttttttggtat    480

ggtgnttatt gcttaattta                                                 500


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<211>  173
<212>  DNA
<213>  Ctenocephalides felis

<400>  592
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aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc     120

acgaattcac gcaactaaat tttactttt tacattttg ctcgggtttc ggt             173


<210>  593
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


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aaagatacat gnaatttcat aaagcttcta tatttatata ttttaaataa tcagaaatta     120

ctatagttaa tgacattttg ttngngctcc ttacataaaa tacaatttta tacattttaa     180

ttnttataca tatttttat atttaattgc acagatcatt ngngtattna ttatattaat      240

ngactacttt atgataattt gaatcctaat tagtctattc aagattgttt tcctggttta     300

agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgna     360

actccgtttt atcaaagngc aagccatttg dacaatcata atgtgntatt tgccatttgt     420

ngntaaccaa gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt     480

ccttttgcat gcagttctgc                                                 500
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<211>   500
<212>   DNA
<213>   Ctenocephalides felis

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ctatagttaa tgacattttg tttgtgctcc ttacataaaa tacaatttta tacattttaa     180

tttttataca tatttttat atttaattgc acagatcatt tgtgtattta ttatattaat      240

tgactacttt atgataattt gaatcctaat tagtctattc aagattgttt tcctggttta     300

agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt atgcatcgca     360

actccgtttt atcaaagtgc aagccatttg dacaatcata atgttttatt tgccatttgt     420

tgttaaccaa gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt     480

cactttgcat gcagttctgc                                                 500
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tggtgattta tttcatttaa aggcaatgta tcggtttaat ggttttaaat ttattttta     120
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tttaatatta aatagattaa ttaaaaatct ataaagtgat aagaggcctg atatccataa        180

tattattgaa tattaagaag tgacggatag atctgataat gtagtagttg ttatagacaa        240

tttacttaat aattatgagt tgcatcatta tgcaatgatt tatcactatt atttattcaa        300

catttattt aactgcttgc aacttttaat aaaacgcatt ttttattgnt ttaagtataa         360

atcttattag ggcacaatat gaaaataaaa ataagaactt tatacaaaag cttttttttat       420

acaatatgct tcttgcgcta ttaagttaag aaattttatt tatgcttgta aaaaaacaat        480

aaatgcttta tttattaa                                                      498
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<211>    498
<212>    DNA
<213>    Ctenocephalides felis


<220>
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aacttgtata taagtgagtt ttaccaaaga tgtgtgggcc ctacatattc ggaatgttta        120

attacacctc tgcctcctcc aattgttccg actactacga ctacgacaac tacaccagca        180

ccgccgcctc tttttttcatg cgtgcaggaa gggatgttta tagatcccta tgacagcact      240

tgcaaaggat actacaaatg tgctttgaaa gcaggcggag gattcagtgt agcgcgttac        300

aattgtcctg gttctactta cttcagcagc acgtatcagc aatgtgtggt cgcttccttt        360

cggagtgcct aagaaatcct cagcgccttg gcaaccacct acgccggcgc catatacaac        420

tgcgtgcaga gcggtcattt gcagatccag cagacaaaac atgcaaagta tattttgaat        480

gngtgagact ctctggag                                                      498
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<213>    Ctenocephalides felis

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caggggctcg cgccagccga actgttcgcc aggctcaagg cgcgcatgcc cgacggcgag        120

gatctcgtcg tgacccatgg cgatgcctgc ttgccgaata tcatggtgga aaatggccgc        180
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ttttctggat tcatcgactg tggccggctg ggtgtggcgg accgctatca ggacatagcg    240

ttggctaccc gtgatattgc tgaagagctt ggcggcgaat gggctgaccg cttcctcgtg    300

ctttacggta tcgccgctcc cgattcgcag cgcatcgcct tctatcgcct tcttgacgag    360

ttcttctgaa ttgaaaaagg aagagtatga gtattcaaca tttccgtgtc gcccttattc    420

ccttttttgc ggcattttgc ttctgttttt gctcacccag aaaccgctgg tgaaagtaaa    480

agatgctgaa gatcagttgg                                                500
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acataactac tattatatat taanaatgat ttttaaagna atcaataata naaagccttg    120

attacttgga aatgatatta acactaacaa cttggagttt cataacttga ataaataata    180

aattttgnaa tggttntatc aaacaagttt atgctttttt acaacataat caaaagttac    240
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<212> DNA
<213> Ctenocephalides felis

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ttatctgtcg ttaccgctta tgatggtgag tttaatgtcg acggaacgcc tttaacagta   120

aataaagaag tatttgcatc attggatgag cccgcaccag gagtagt   167

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<211> 380
<212> DNA
<213> Ctenocephalides felis

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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg   380

<210> 601
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 601
gaggaggact ttgtttaccg taatggacaa ccattcgaaa ttccaaaagg aaatttacta   60

ttgaatgatt aaatgtaata gattaatcaa attttagatg attaaaattg ttctattact   120

acaatagcaa cctctgcctg aaaattaacc gaacaaactt ctaacatcct tattaatgta   180

tagattttga ataataacat agaaattata ctattttttt gatgactcta ataaaaaaaa   240

tgtataaatg gccatgcctg atatattttt gataacctta atgaaaaaat gtttaaatgg   300

ccatgtctga aaagatttct atgtgtattt ttttgttaac attttattgt tgaatggata   360

aaagataaat acaattttat aagctgtttg gataaattaa ttttgaataa atccataatc   420

atagaatatg ttaagtagca aattaaaata tggaccacaa accacaaaat gtatacgaaa   480

tataacttat atgatata   498

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<213>   Ctenocephalides felis


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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa aaaaaaaaaa     360

annaaaaaaa aaaaaaa                                                    377



<210>   603
<211>   384
<212>   DNA
<213>   Ctenocephalides felis


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catacaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

aaaaaaaaaa aaaaaaaaaa aaaa                                            384



<210>   604
<211>   269
<212>   DNA
<213>   Ctenocephalides felis


<400>   604
agatctacta atgccgcgtt taccactgtc acagcaattc cgcaaaccag caaccacaaa      60

tataaatatg atgctattgt taaatgttca ataaatgcac aaattattcc acaaatcccg     120

catgagacca tcacgaatac aagaattgga agctttccca cagagttaat aatagcacct     180
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attatgggaa atccaatcgc atatccagct tccaacatta aagaatgcat aaatgcctgt      240

tcttccattg tgtctttaca ctcggtcgt                                        269
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<210> 605
<211> 500
<212> DNA
<213> Ctenocephalides felis

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tttgtggtcc atattttaat ttgctactta acatattcta tgattatgga tttattcaaa      120

attaatttat ccaaacagct tataaaattg tatttatctt ttatccattc aacaataaaa      180

tgttaacaaa aaaatacaca tagaaatctt ttcagacatg gccatttaaa cattttttca      240

ttaaggntat caaaaatata tcaggcatgg ccatttatac attttttttta ttagggcatc      300

aaaaaaatag tataatttct atgttattat tcaaaatcta tacattaata aggatgttag      360

aagtttgttc ggttaatttt caggcagagg ttgctattgn agtaatagaa caattttaat      420

catctaaaat ttgattaatc tattacattt aatcattcaa tagtaaattt ccttttggaa      480

tttcgaatgg ntgccattac                                                  500
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<210> 606
<211> 343
<212> DNA
<213> Ctenocephalides felis

<400> 606
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ttctccatga gctgcttttg gcggtgcctt tggtgcctct ggcataccgt tttcttggct      120

ggagacaacg tctgaagtca tttccattcc ttggttcaaa tcaccatttg atttagcaga      180
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atgaggagct tcatctttat ttttcttggt tgccatcaaa tataatggtt tgcccaagag   240

catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttgtcc   300

ttcaaacata aattcatcgc aatgttctgc tggagatcct tgc   343

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<223>   n = unknown

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<223>  n = unknown

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actatagtta  atgacatttt  gttngngctc  cttacataaa  atacaatttt  atacatttta      120

atttttatac  atatttttta  tatttaattg  cncagatcat  ttgggtattt  attatattaa      180

tngactactt  tatgataatt  tgaatcctaa  ttagnctatt  caanattgnt  ttcctggttt      240

aagccttact  tagcaatctc  acttttgcat  tcttcgccgg  gtggcgtggg  tatgcatcgc      300

aactccgttt  atcaaagtgc  aagccattng  dacaatcata  angnttnatt  tgccatttgn      360

tgttaaccaa  gaaacattga  taatattttt  tacaatctct  tcgatcggaa  aaaacgtttt      420

ccttttgcat  gcagtctgc                                                        439


<210>  608
<211>  498
<212>  DNA
<213>  Ctenocephalides felis

<400>  608
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aacagtgtca  tggaaagtta  ttaatgagac  ttatgacgaa  tcatccgatc  gaatcaaatt      120

gttagatcat  dacaatatac  caaattctgc  tttggaaatt  gatttggctg  aaaaaagcga      180

tcgaggagaa  tatacatgta  ttgctactaa  tcaaggcatt  ggaattactg  ttaattctac      240

aaccttggtt  cgagttcaag  ataaattagc  tgctttgtgg  ccattttttgg  gtatctgtgc      300

tgaagtaata  attttatgcg  cgattattct  catttatgaa  aagaaacgca  acaaagctga      360

aatggaggag  agtgatacag  atcaaagtcc  agatcgaaaa  aatactcctg  atcacatgaa      420

ggacactgat  gtgaggcata  ggaagtaaac  caaaaattta  atctagttga  ataaaagtta      480

atgcaccaga  gtagaagt                                                        498


<210>  609
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<212>   DNA
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agaaattact atagttaatg acattttgtt tgngctcctt acataaaata caattttata   180

cattttaatt tttatacata ttttttatat ttaattgcac agatcatttg ngtatttatt   240

atattaattg actactttat gataatttga atcctaatta gtctattcaa nattggtttc   300

ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg gcgtgggtat   360

gcatcgcaac tccgtttatc aaagtgcaag ccatttggac aatcataatg ntttatttgc   420

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actatagtta atgacatttt gtttgngctc cttacataaa atacaatttt atacatttta       180

atttttatac atattttta tatttaattg cacagatcat ttgngtattt attatattaa       240

ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattggt ttcctggttt       300

aagccttact tagcaatctc acttttgcat tcttcgccgg gtggcgtggg tatgcatcgc       360

aactccgttt tatcaaagtg caagccattt ggacaatcat aatgttttat ttgccatttg       420

ttgttaacca agaaacattg ataatatttt ttacaatctc ttcgatcgga aaaacgtttc       480

actttgcatg cagttctgca                                                    500


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attttataca ttttaatttt tatacatatt ttttatattt aattgcncag atcatttgng       180

tatttattat attaattgac tactttatga taatttgaat cctaattagt ctattcaaga       240

ttgntttcct ggtttaagcc ttacttagca atctcacttt tgcattcttc gccgggtggc       300

gtgggtatgc atcgcaactc cgttttatca aagtgcaagc catttggaca atcataatgn       360

tttatttgcc atttgttgtt aaccaagaaa cattgataat attttttaca atctcttcga       420

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tcacgttgac cagcgccttt acctacatca gcggccaatc tggt                        104
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attatggatt tcaagataca caagtcgcct gcctcccaaa tcccctaata tatatgcagc     180

agtgcagnct gtctattatt tntgccactc acacttaaaa atatagtggc tgtaccgata     240

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gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta     120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat     180
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cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt   240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca   300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt   360

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gctccttaca taaaatacaa tnttatacat tnnaattttt atacatattn tttatattta   180

attgcacaga tcatttgtgt atctattata ttaattgact actttatgat aattngaatc   240

ctaattagtc tattcaagat tgttttcctg gtntaagcct tacttagcaa tctcactttt   300

gcattcttcg ccgggtggcg tgggtacgca tcgaaactcc g   341

<210> 616
<211> 221
<212> DNA
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atgttcatca tcacgtctaa gctgtccact aaattcaact ttttctccat tttctttcat   120

gacatgtctg aattttattt ttccttcaac taaagattcc atgtgagctc ttgcgcaagt   180

tccatctcgt tcaaaatgat tttggtatct atattgttcg t   221

<210> 617
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<213> Ctenocephalides felis

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aggattcctt aaccggatct gctcctattt ccggacaata ctgcatttcg ggtgaactgc   120

acgaattcac gcaactaaat tttacttttt tacatttttg ctcgggtttc ggt   173

<210> 618
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agaaacccca attacaacaa tcaattgcag agactcaaat tccgatgctc cattttgtgt   120

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agatgatatg tgctcatcaa aacctgggga aaactgtaag acggcagaaa ctacatgcgc      180

ggttgtagga tatcagccag atccgaaaga ctgcacaaga tacttattct gcaagatggt      240

aaaggtcagg ttttcgaatg cccacctaac tatgtatatg atcattctaa aaatatgtgt      300

aaaaagaaat cgtcagaagc tgattgcacc gtcatgaaat gcacaaatcc caattctttt      360

ataacctatg caccggaccc atcaatttat gcttggtgca atgaccaatt gtaaccgatc      420

gt                                                                     422
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acttctggat atttccatcg caattatcaa agggctttga aaaacagatg tagatgttag      180

tgaaccaaga aaagccgctg ttataaaaac aataaaccaa ctggaagtaa atgctgtaat      240

tagtcttccg gtgacgattg tgatgagact taagtaaaat actggtcttc ttccaatcct      300

atctcctaat tgtccaaaaa taaatgtgcc tatgacttcg cctgcacgtc caatagcaaa      360

tgtattagtt acatagagtt ctctatcaca aacccagtct tgatctgacg gacccgttga      420

taaataccat gttctgcata ttcataacca tgctgacaag gnattatttg actttcaatc      480

ntattgctct tca                                                         493
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<212>   DNA
<213>   Ctenocephalides felis

<400>   620
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tatgtatatt tatgaatatg tatttcttgt attttaggtt aaattcgtta tagaataatt      120
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tggaaataca tattcataat gctaaagtat taaattggct ttttttccatt aaaatcctat      180

ttaacattat acatatattt tattgtcaaa tgtgaggcgg tatggaatca cgggtggctg      240

cttttctgagt agtcgaacct tttaggcaaa aattgtgtag atcaaactca gttctacaat      300

cttgagctca tccacattct cagaacatcc atgtatttaa gttaacttat                350
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gcttaccgaa aaaaggtgta tcaaagtcta cagatacggc cgtcaagaaa ttatcacaag     180

aagactgtta aatagttata atttgtattg ttatacatat gtttcttata taataaaatt     240

atatttattg t                                                          251
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<210> 622
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<213> Ctenocephalides felis

<400> 622
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catgcaaagg tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaata     480

catgtatctt tttaataa                                                   498
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<212>  DNA
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tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc     120

aaagacaatg t                                                          131


<210>  624
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<212>  DNA
<213>  Ctenocephalides felis


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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg nataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

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ctttaatatt tttcttcatc cattcatcta cttttaaggc caattccaag ctcatttctt     180
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ttaattttta tacatatttt ttatattnaa tngcacanat catttgtgna tttattatat     180

taattgacta ctttatgana attcgaatcc taattagnct attcaagatt gttttcctgg     240

tttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggcgt gggtatgcat     300

ngtaactccg ttttatcaaa gtgcaagcca tttggacaat canaaggntt tatttgccan     360

tngntggaac caagaaacat tgataatatt ttttacaatc t                        401


<210>  627
<211>  466
<212>  DNA
<213>  Ctenocephalides felis

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ccgccttcct ggggcctaat atatgggata agacattacc ctatgatgct gatctcaagt     120

atgtggatct agatgagttc ctttctgaga atggaatccc tgtggatgga atgggtcaca     180
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gcggtggatt ggggtccatg agtcacttag gtggcttagg aggatctcat aggtctgagg      240

ctttaggtca ccctttgagt ggtatgccaa cacatctaac aaagattgaa agatcacctt      300

caccttccga atgcatgagc ccggatacta tgaatcctgc ttctccagct gattcaacat      360

tctcaatggc ttcttctggg ccgagatttt gatcctcgaa cacgggcttt ttcggatgaa      420

gaactaaagc ctcaacctat gatcaagaaa agtagaaagc agtttg                     466
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<210>    628
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<213>    Ctenocephalides felis


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aacatcagat tggggatgtc attgaaacaa aagttaaaga cagattcatg aattactgaa      180

aatctgaaaa acaaactgaa ggaatttgtt gcacatttat ctgacctccc aacatcttta      240

aatatgatct agtattaagc ataagaattc aaaatataca acctttccgt taccaatcta      300

atgtagacaa aaagcaatta ctggcaatat ttaaacttaa ttttgcatat ggataagtcc      360

tattgtctag ccaacaaaca aaaatgctga caatctagta tgtctgaaaa acatcaaaag      420

ctgttctttt ggaaacacat caaacaaagt attaaacaaa ccttttctat aaagctctaa      480

aaataaaaaa aagtagaa                                                    498
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catgcaaagg tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaanatg tataaaattg nattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattattaaa atatataata tagaacttta tgaaatacnt     480

gnatctttta ataaaata                                                   498


<210>  630
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<212>  DNA
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aagcatccaa tgaagcatct tgtaaacaac tatgcatctg tgaaatctat gttgattttg     120

aacatcagat tggggatgtc attgaaacaa aagttaaaga cagattcatg aattactgaa     180

aatctgaaaa acaaactgaa ggaatttgtt gcacatttat ctgacctccc aacatcttta     240

aatatgatct agtattaagc ataagaattc aaaatataca acctttccgt taccaatcta     300

atgtagacaa aaagcaatta ctggcaatat ttaaacttaa ttttgcatat ggataagtcc     360

tattgtttag ccaacaaaca aaaatgctga caatctagta tgtctgaaaa acatcaaaag     420

ctgttctttt ggaaacacat caaacaaagt attaaacaaa cctttctat aaagctctaa     480

aaataaaaaa aagttaga                                                   498
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<212> DNA
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gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta   120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat   180

caaaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt   240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcgattacaa agaaaattca   300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn   360

tattagattc gatgtaagat atatgt   386

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tgaatgatna aatgtaatag attaatcaaa ttttagatga ttaaaattgt tctattacta   120

caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgtat   180

agattttgaa taataacata gaaattatac tattttttg atgactctaa taaaaaaaat   240

gtataaatgg ccatgcctga tatattttg ataaccttaa tgaaaaaatg tttaaatggc   300

catgtctgaa aagatttcta tgtgtatttt tttgttaaca ttttattgtt gaatggataa   360

aagataaata caattttata agctgtttgg ataaattaat tttgaataaa tccataatca   420

tagaatatgt taagtagcaa attaaaatat ggaccacaaa ccacaaaatg tatacgaaat   480

atacttatat gatatatg   498

<210> 633

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<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   633
taatgtcgta gaaggtgaaa aactgcgagt tgtttgcaca gttgtaggca aacctacacc      60

aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgatc gaatcaaatt     120

gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga     180

tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac     240

aaccttggtt cgagttcaag ataaattagc tgctctgtgg ccatttttgg gtatctgtgc     300

tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca acaaagctga     360

aatggaggag agtgatacag atcaaagtcc agatcgaaaa aatactcctg atcacatgaa     420

ggacactgat gtgaggcata ggaagtaaac caaaaattta atctagttga ataaaagtta     480

atgcccagag tagaagta                                                    498


<210>   634
<211>   395
<212>   DNA
<213>   Ctenocephalides felis

<400>   634
atattatatt cacaataatc taatcttcca agttgcggaa tgcttgctgt aaatcctcat      60

gtaattgatc aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact     120

tcattgagga caactgatat agaatattgc ccatagcatc tctaatggta ttccaggtaa     180

tcttgttttc actttgtgca gtagattcaa ctgcgtattt tgccatatca tagaaagcaa     240

taatgttacg taacatacca actgttttat agaaggggca gaaacgatca tatgatgagt     300

agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt     360

cagtttccgc caaggaggct ttaccaacca attgt                                 395


<210>   635
<211>   386
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (360)..(360)
<223>   n = unknown

<400>   635
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt      60
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gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacattttta    120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat    180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt    240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca    300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn    360

tattagattc gatgtaagat atatgt                                         386
```

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<210>   636
<211>   354
<212>   DNA
<213>   Ctenocephalides felis

<400>   636
ccgggcaggt acaatacttt gaatacttca taaagaccga atttgcaaag accctgcatg     60

gagtatccaa caaaggttgg agcccaacct ttagcaagac ctctagcacc atcttccgct    120

agagttactt tgaatccatt gaatactgat ttgtattttg caggatctac ttgaatacgg    180

catttcacta aatcaagtgg aacgaccatg gtgtgtgtta caccgcaaga aataattcct    240

ccaaatccgc aaagagcaaa gtaatgacca gatccaaagg cacaggaatc tcctgttgca    300

tctgaggtgg aggctgccat tgttgccaat gatttagatt cagcttcaca ttgt          354
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<210>   637
<211>   498
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (69)..(69)
<223>   n = unknown

<400>   637
ttcttcacgg gcagctgata cctcacgcaa agcttcagca tatgaggaca tgtctgttaa     60

gattaccanc acgtgctttt cacattggta ggccaagaat tcagcagctg tcaaagccag    120

acgtggggta atgatacgtt caatagttgg atcattggcc aagttcaaga acaggcacac    180

attctccatg gaaccattct cctcgaaatc ttgtttgaag aatctggcag tttccatgtt    240

gacacccata gcggcgaaca caatggcaaa·gttatcctca tggtcatcca aaactgattt    300

tcctgggatt ttaactaaac ctgcttgcct acagatctgg gcagcaattt cattgtgggg    360

cagaccagct gcagagaaaa taggaatctt ctgtccacga gcaatggagt tcatcacatc    420

aatagcagag ataccagttt ggatcatttc ctcaggatag atacgagacc agggattgat    480
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gggttgacct tggatgtc                                                      498


<210>   638
<211>   479
<212>   DNA
<213>   Ctenocephalides felis

<400>   638
ttattgcagt caataaaaat agatacatag tagctgatca taaattatta attgaaaatt      60

taataatttt ttatttgtta tttaaattag cattcgagtc cgccctcacc tccagctcca     120

ccgatcatgt ccaaaatttc ttgaagagtg aattggctca aaattggatt gataagatcc     180

tttgcagctg agtctacggt attggaaatt aattcttggt tttctttgat caattctggt     240

aaagtttcgt ttaagaaagc gttgatttca cttgtgagtt ctgggtcgtt cattattcca     300

tcgatagcga acttcatatc tccaacagtg agcaaaagtt ttaattctgc taattcaacg     360

tatgtaagat ttttcaaacg caatttgata tgtccggatg ctgtgatttg gtttaattga     420

atatcgaaag gccttttccg aataatgggt cagctgcaac caagtttgca atgaggtcg      479


<210>   639
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   639
aacaatatgt aaccgattcc acactatttt taacagaatt caaaattcgt aattgtcaag      60

aaattatttc atctctacag aatgttttat gtgatcaaga agtcaagtat attccaaagc     120

ggaaatttgg gttcaaaaat aaaaagctct tattaaatga taaaattatt ggtaaggact     180

tggatacaaa aagtaaagat acgacagatt tatgtctcaa taagtgtaat gattggaatt     240

tatcagaatg tggatttcat ttaaaggaga atgaaattct atatctttat gctgaacagg     300

ttaataaaaa ggatattaca ttgagtagca tatataaatg cactgtaata attactggct     360

atcctaatac tcttcacatg tcaaacattc aagacagcac tgtgatttgt ggtcctgtaa     420

ctacatcaat atttgctgat aaatgcatta atagtaagtt agtcattgct tgccacaatt     480

gagactacat tcttctaa                                                     498


<210>   640
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   640
aataaatata attttattat ataagaaaca tatgtataac aatacaaatt ataactattt      60
```

```
aacagtcttc ttgtgataat ttcttgacgg ccgtatctgt agactttgat acaccttttt    120

tcggtaagct ccagaacacc tgatccctgc cgaatacgtg agcttcagtt agcgtttccg    180

gtaacttttg gtgtaaagtt tccggcaaga acattccgga agtcgcgccc accatcatca    240

ttacggaaag tacagcgtac ggatatctgg cgtcatatgt ggttcccaag tatacaatgt    300

atgggcctaa tactcctaat gcatttgaaa ctatagttcc aatggaaatt cctgtctgct    360

caaacaggtt ggatatgttt ccattgcttg cagattcaca acataaaacg tgatgcttat    420

gcaaaatttc attaccacgg ctaacagtgg gaccaaattc tggagggatt catcattggc    480

aatgcatata agaatgga                                                  498
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<210>    641
<211>    491
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (8)..(8)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (14)..(14)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (61)..(61)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (65)..(65)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (152)..(152)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (176)..(176)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (330)..(330)
<223>    n = unknown
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<220>
<221>  misc_feature
<222>  (355)..(355)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (384)..(384)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (458)..(458)
<223>  n = unknown

<400>  641
tttttttntt tttntttttt cttttcataa agcttctata tttatatatt ttaaataatc    60

ngaanttact atagttaatg acattttgtt tgtgctcctt acataaaata caatttttata    120

cattttaatt tttatacata tttttttatat tnaattgcac agatcatttg tgtatntatt    180

atattaattg actactttat gataatttga atcctaatta gtctattcaa gattgttttc    240

ctggtttaag ccttacttag caatctcact tttgcattct tcgccgggtg gcgtgggtat    300

gcatcgcaac tccgttttat caaagtgcan gccatttgga caatcataat gtttnatttg    360

ccatttgttg ttaaccaaga aacnttgata atattttta caatctcttc gatcggaaaa    420

aacgttttca cttttgcatg cagttctgca cgagaaantt ttgggcaaac cattcgtgac    480

gcgcttccat t                                                         491
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```
<210>  642
<211>  331
<212>  DNA
<213>  Ctenocephalides felis

<220>
<221>  misc_feature
<222>  (30)..(30)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (37)..(37)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (71)..(71)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (82)..(82)
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<223>   n = unknown

<220>
<221>   misc_feature
<222>   (108)..(108)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (205)..(205)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (249)..(249)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (265)..(265)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (294)..(294)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (297)..(297)
<223>   n = unknown

<400>   642
atggaatagt gctaaccaaa gcaaagatan accaatntcg cgtcgcccac atcagtaacg   60

gcataagaat nattccactg gnccacccga tggactgcat catggcantg tgtgctctat   120

cttcacttct ggatatttcc atcgcaatta tcaaagggct ttgaaaaaca gatgtagatg   180

ttagtgaacc aagaaaagcc gctgntataa aaacaataag ccaactggaa gtaaatgctg   240

taattagtnt tccggtgacg attgngatga gacttaagta aaatactggt cttnttncaa   300

tcctgtctcc taattgacca aagataaatg t   331

<210>   643
<211>   489
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (387)..(387)
<223>   n = unknown

<220>
<221>   misc_feature

<222> (392)..(392)
<223> n = unknown

<400> 643

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tgttgacacg attttttcgag ttttaactga ccgatccact taaaatgttc agagagtctt      60
gtttatagac ctatctatag cccgaactag gattatcccc caattccaat tttcactatt     120
tttaaaacat tcgagaaact aaaaaaacag taaaaaaaca cttttttttc aaatagtcga     180
aaatttgtaa acaaacattt ttttactcat cgccagttca ggcgattgcg acatcattgt     240
agattaataa tctttttatt ttttgcattt ccgatggcta ggagggctga aatcatgtca     300
agactgaagt gccaattttt tgagaccacc cacttcatca gctgccagtt tttacaattt     360
tcaactttt tattttttaa tttttgnttt gnattttaat aatattaata aacaagtggt      420
aaaaaaacgg atagtaaaaa cattcattgg tttctttac gacactttaa aaatgaccta      480
aaattcatc                                                              489
```

<210> 644
<211> 336
<212> DNA
<213> Ctenocephalides felis

<400> 644

```
aattgttgtg ggtcaacttg gtcactgatg gtttaccagc tactgcctta ggtttcaacc      60
caccggactt ggacattatg gacaaaccac cacgtaaagc tgatgaaggt cttatctctg     120
gatggttgtt cttcagatac atggctattg gagggtatgt aggtgctgct actgttggag     180
ctgccagttg gtggttcatg tattctccat atggtccaca aatgagctac tggcaactta     240
ctcatcactt gcaatgtctt ggtggtggtg acgaatttaa ggagtcgatt gtggtatttt     300
cactgaccct catccaatga ccatggcttt gtctgt                               336
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<210> 645
<211> 460
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (94)..(94)
<223> n = unknown

<400> 645

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cttcggcttt tcgcggtagc gttccgaggt gcccattgaa gatttaaaag ccgcagtaa       60
tttgactgtg caaaggtagc ataatcaata gttntttaat tgaaagctgg aatgaatgat     120
tgaatgaaat attaactgtc ttaataaaat tgttatagaa tttaattttt atgttaaaaa     180
```

```
gcgtaaatat tattaaagga cgagaagacc ctttaaagtt ttatatataa atatagatta      240

attttaagaa tattattaaa tttatttata ttaatatatt ttattggggt gataggaaaa      300

tttataaaac tttttttttta ttaaaacata aataattgaa taattgatcc ataaattatg     360

attaaaagat taagttactt aagggataac agcgtaatta tttttaagag aacatatcga      420

caaaatagat tgcgacctcg atgttggatt aagataattt                           460
```

```
<210>  646
<211>  394
<212>  DNA
<213>  Ctenocephalides felis
```

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<400>  646
caggtcgaat aatatttcta attgtttcaa tacaaactat aaaaggtatt aaaattattg      60

gagttccttg aggcactaga tgactaaata tatggttata attattaatt catcctaata      120

atataaatct taatcataaa ggaagtctta atcttaaagt taaagttaaa tgactagttc      180

ttgtaaaaat gtaattaaat aatcctaaaa aattattaaa taaataaat gaaaataatc       240

taataaatat aaaagttctt cctataggat tatattttat aagtaattta aattcattat      300

gaagtgttat aataattttt aatcaaatta tgttgtatcg ggacggaatt attcaaaata      360

tatttggaat aaataatagt cctaatcccc cccg                                 394
```

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<210>  647
<211>  368
<212>  DNA
<213>  Ctenocephalides felis
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<400>  647
agtaaactac cacacaacaa taatttgtac aatttgtaac tttatcaact ctttacagca      60

tttattgtaa gttgtaacaa acacttcatt tatccgtaag gataatgtga actaaatcat      120

aattcgtttt agtattataa gtccgtgcta ttgttagtta attatcgata ggattttttgt     180

gttattcatt tgaggaaaaa taggcggagg ccgatatcat caaattgctg tgttgccttc      240

aaggatttac caacttataa taaataatag aagtccaaat catttattaa ttaagaacgc      300

gtcatcttgc aatttgatta ctctgtgata agagtaacga gtaaaagtta catatacaat      360

taaacagt                                                              368
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```
<210>  648
<211>  332
<212>  DNA
<213>  Ctenocephalides felis
```

<400> 648

caggtcgaat aatatttcta attgtttcaa tacaaactat aaaaggtatt aaaattattg   60

gagttccttg aggcactaga tgactaaata tatggttata attattaatt catcctaata   120

atataaatct taatcataaa ggaagtctta atcttaaagt taaagttaaa tgactagttc   180

ttgtaaaaat gtaattaaat aatcctaaaa aattattaaa taaaataaat gaaaataatc   240

taataaatat aaaagttctt cctataggat tatattttat aagtaattta aattcattat   300

gaagtgttat aataattttt aaggaaacta tg   332

<210> 649
<211> 357
<212> DNA
<213> Ctenocephalides felis

<400> 649

atatacatat ttatgatcct tctattagta gattatataa ttaggttttt gtctttgaac   60

tgattatctg caaataacgt aaattagaaa acgcacaaga gaaaatgttt atatgattcc   120

gatatttact cactatttat ttttcacaaa gcatagaatt agttttata tgatgcttga   180

tcaataatgg tgtttgaaat tttaaaatta atatacgaag ctatttaata tcacgcaaag   240

aaactttgat gtttataaga cacctatgtt tacacataca tacacatata ttgtaaatat   300

taatacttct ttataaaatc catgcatatt tgctttgtca tattcttatt attctgt   357

<210> 650
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (440)..(440)
<223> n = unknown

<220>
<221> misc_feature
<222> (473)..(473)
<223> n = unknown

<400> 650

taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag   60

atcatgtagg aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta   120

tcttaatcca acatcgaggt cgcaatctat tttgtcgata tgttctctta aaaataatta   180

cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat   240

tatttatgtt ttaataaaaa aaagttttta taaattttcc tatcacccca ataaaatata   300

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```
ttaatataaa taaatttaat aatattctta aaattaatct atatttatat ataaaacttt    360

aaagggtctt ctcgccttta ataatattta cgcttttttaa cataaaaatt aaattctata    420

acaacttttta ttaagacagn taatatttca ttcaatcatt cattccagct ttnaattaaa    480

aaactattga ttatgcta                                                   498
```

```
<210>   651
<211>   498
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (477)..(477)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (486)..(486)
<223>   n = unknown

<400>   651
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag    60

atcatgtaag aattaatggt cgaacagacc aaatttttaaa acttctgcat tttaaaatta    120

tcttaatcca acatcgaggt cgcaatctat tttgtcgata tgttctctta aaaataatta    180

cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat    240

tatttatgtt ttaataaaaa aaagtttttat aaatttcct atcaccccaa taaaatatat    300

taatataaat aaatttaata atattcttaa aattaatcta tatttatata taaaacttta    360

aagggtcttc tcgccttttaa taatatttac gctttttaca taaaaattaa attctatagc    420

aatttttatta agacagttaa tatttcattc aatcattcat tccagctttc aattaanaac    480

tattgntatg ctcctttg                                                   498
```

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<210>   652
<211>   498
<212>   DNA
<213>   Ctenocephalides felis

<400>   652
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggt ttgaactcag    60

atcatgtaag aattaatggt cgaacagacc aaatttttaaa acttctgcat tttaaaatta    120

tcttaatcca acatcgaggt cgcaatctat tttgtcgata tgttctctta aaaataatta    180

cgctgttatc ccttaagtaa cttaatcttt taatcataat ttatggatca attattcaat    240
```

```
tatttatgtt ttaataaaaa aaaagtttta taaattttcc tatcacccca ataaaatata      300

ttaatataaa taaatttaat aatattctta aaattaatct atatttatat ataaaacttt      360

aaagggtctt ctcgtccttt aataatattt acgctttta acataaaaat taaattctat       420

aacaatttta ttaagacagt taatatttca ttcaatcatt cattccagct ttcaattaaa      480

aaactattga ttatgcta                                                    498


<210>    653
<211>    498
<212>    DNA
<213>    Ctenocephalides felis

<400>    653
acaaaattag aaaaatttaa ttaaggatct gcgataaaaa aaaaacaatt tttgacacat       60

gaaacaattt tctaaatcat ttttctattt catgttcaag agaacagacg gacagacgaa      120

cagatagata aacaggtgga cacttaacac gttaatcgcc atgataatat cagaaaaaaa      180

tttacatgca ctatggtaac tttattagtt gaaaatgtat cgaaaactcc atgtagcaaa      240

gaaaaaaaga tattttgaaa aattcctgca cattattttt ttatgccaca tatatatgac      300

tgatatatat gtcagacata atttataaac tagtcggttt ggtatttagc cttgagggca      360

agttacatga acttcccgat atgtttaaat aatcaactta atcaataaaa aataaattaa      420

tttatgagtc attaaaagta ttccgagtgg atttattata cataattgaa aacgaacgac      480

actttgactc ggagtatt                                                    498


<210>    654
<211>    498
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (18)..(18)
<223>    n = unknown

<220>
<221>    misc_feature
<222>    (472)..(472)
<223>    n = unknown

<400>    654
tcggtccgac acgctagnat gcgaagagcg aacgaaattt cttactatga gcggttgcaa       60

cgctagtttt atatttatta taaaactata ataaaattat aatttattct ttaaaattat      120

tttcgatacg taaatacgta tatattacat aaatatatgg tattttatta aagacgatat      180
```

gttttacgtc agcatttttg gtaaacaaac tatttctttt aatactatat taccatttat   240

atattttgct atctttgtat ttattgcgtt tcgataattc atataattta attttcaaat   300

acaatgttaa aaataagcta ttacattttt acaagcaatc gaacgtagct tataaaatca   360

tattattatt tatgtaatta actattaggt ttgcactaat ttatacacca taaaaattaa   420

tttcgtataa tattaaaaac aatcgaattt caacgtaaa actctagatt gnatatagta   480

tgattataag tgataaag   498

<210>   655
<211>   241
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (219)..(219)
<223>   n = unknown

<400>   655
acaaaattag aaaaatttaa ttaagggatc tgcgataaaa aaaaaacaat ttttgacaca   60

tgaaacaatt ttctaaatca tttttctatt tcatgttcaa gagaacagac ggacagacga   120

acagatagat aaacaggtgg acacttaaca cgttaatcgc catgataata tcagaaaaaa   180

atttacatgc actatggtaa ctttattagt tgaaaatgna tcgaaaactc catgtagcaa   240

a   241

<210>   656
<211>   249
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (208)..(208)
<223>   n = unknown

<400>   656
tcgccggttg gatcgtaaac tgcagaaagt ttcttccact cttctggttt gttgttgacg   60

aaaaatctga ttactttctc agctccttct ctttgtttct cgctacattt agcgcactcg   120

ttggataagg catcaggtaa gactttttc aattctttc cttctgctgt gcagctgcct   180

ttgtcgagaa ggcagtttac atagttgntg agcaatctat tgctttgcaa aatttcatct   240

aaattgatg   249

<210> 657
<211> 155
<212> DNA
<213> Ctenocephalides felis

<400> 657
taattaattt taaaaaatta aggatagaaa ccaacctggc ttaaaccggc ttgaactcag   60

atcatgtaag aattaatggt cgaacagacc aaattttaaa acttctgcat tttaaaatta   120

tcttaatcca acatcgaggt cgcaatctat tttgt   155

<210> 658
<211> 385
<212> DNA
<213> Ctenocephalides felis

<400> 658
tgtcgacgat ttgcaagtag ttgggaattt ggccgcctta gataagtatc cccatccagc   60

cagagtggat actgctccaa ttggtgtatc atagcttgcc agaccaactg gtttgacata   120

gtttgtgtat acaatatttg atgtagtttt tagtaaagcg atgttattgt ggtatgtgtt   180

ctggttaaat tggttatgaa cgattatttg ggcaactttg tatcctactc cgccagcatt   240

caaagtgttg gttccaacga cgagaagaat atcatttgga tatttatta acacgcaagt   300

agcagcagta agaatccaac gattgctgat gatggcacca ccacagaagt gtccttggtt   360

ggttctcaaa gacaccataa aaggc   385

<210> 659
<211> 292
<212> DNA
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<220>
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<223> n = unknown

<400> 659
atnttttat aaataaacgt gatttgccta gcagtcttat aaaatacagt tcaacaattc   60

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cttatactta tcagngcttt ctaaaataac atacataatt taaatcaaaa ttaaatacga      120

gtaacaaaag tagtaaacaa atagaattag ttctaatctt cttacaccta aaaactattt      180

tagataaatt gagtagatcg ccattttctt ttaatttaat aaattctttt ttatgatgta      240

ttaaatattc atatatcgnt tatttaaatg tttccggtat cttataattt gt             292
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<210> 660
<211> 315
<212> DNA
<213> Ctenocephalides felis

<400> 660
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aaaattacta tataatgatt attgaaataa tgcttttata gattgcattt caatctgtat      120

taaattgtat gtaaatcaca gcacaagatc taacacacaa ttcatctaac agaaagaaca      180

aaataatttt aatgttatta aaaattacat ataaaataac ttttacaata aagtaacctt      240

acatgagatg tgttgatttc agatactttt catacaacag tactttctgt ataaacaata      300

taatataaat aacgg                                                      315
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<210> 661
<211> 189
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (79)..(79)
<223> n = unknown

<400> 661
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aattccacga agttttttgnc atagaagtca tccaaagcac gcatatattt actgtatgaa      120

atcaaccaat tgattgaagg gaaatgtttc ctttgagcta atttcttatc caaaccccag      180

aacacttgt                                                             189
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<210> 662
<211> 405
<212> DNA
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<222> (227)..(227)
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<222> (274)..(274)
<223> n = unknown

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<223> n = unknown

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tttcataaag cttctatatt tatatatttt aaataatcag aaattactat agttaatgac   120

attttgtttg ngcnccttac ataaaataca attttataca ttttaatttt tatacatatt   180

ttttatattt aattgcacan atcatttgng tatttattat attaatngac tactttatga   240

taatttgaat cctaattagt ctattcaaga ttgntttcct ggtttaagcc ttacttagca   300

atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc cgtttttatca   360

aagtgcaagc catttggaca atcataatgn tttatttgcc atttg   405

<210> 663
<211> 526

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<212>  DNA
<213>  Ctenocephalides felis


<220>
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aattatttat atacattttt ataagaaaag actcattatt ttataagtat ttaaatttca    120

aaatcaagtt tttgggatgg agcagaagaa taaatatatt tattatatcg ctcgactgtt    180

atacgatgag attttcttat gaaagtggtt ccctggtcgt gttaggcaaa aatagacaca    240

tcagaccacc tccagccaat agtagtgcta caataaatgt cggggctggc aatacatgtc    300

taataaagtt gcaattacca cattgccaat tatgcctcca agtcgagcag ctccatagat    360

attgccacac cagtagccct caaatttggt ggaaacacct cggtgataag acagccacgc    420

tgcattttca caagatataa cagagctgaa gactgcagac acgattaaat tgtgacgttt    480

attgnnaaca aagaacatgc aggctggcac actcctggtg taaaag               526


<210>  664
<211>  251
<212>  DNA
<213>  Ctenocephalides felis

<400>  664
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aaaagttacc ggaaacgcta actgaagctc acgtattcgg cagggatcag gtgttctgga    120

gcttaccgaa aaaaggtgta tcaaagtcta cagatacggc cgtcaagaaa ttatcacaag    180

aagactgtta aatagttata atttgtattg ttatacatat gtttcttata taataaaatt    240

atatttattg t                                                         251


<210>  665
<211>  409
<212>  DNA
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<400>  665
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gcaagaatga gtttcaggga acgaaaagaa tcggccaaat gcatgcaaaa ggntgcatta     120

antatacaac tagcagcagc cagagtttca actgatgttg gcattaaagt aggagaagcc     180

ctcaggaatg tcgtggaact tcgtttaaat ttgggaaaat gttcttcaga caatttgaat     240

aaatgggaat ccagattgga agaaattaat gatgttgtgg aaaattgcat cgtgtgaaat     300

tgtaacttga ataattttt cttaactatt agttttatag atgaacaaat acataatcta     360

ataaaccagc aagtgaacct tggnaaaaaa aaaaaaaaan aaaaaaaaa               409
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<210>  666
<211>  447
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atgtggatga gctcaagatt gtagaactga gtttgatcta cacaattttt gcctaaaagg     180

ttcgactact canaaagcag ccacccgtga ttccataccg cctcacattt gacaataaaa     240

tatatgtata atgttaaata ggattttaat ggaaaaaagc caatttaata ctttagcatt     300

atgaatatgt atttccaaat tattctataa cgaatttaac ctaaaataca agaaatacat     360

attcataaat atacatatat tttaatacaa aaaggtaact tgtgcaaaaa tgaaattcaa     420

atcacttggt tttgctaatt taaattg                                        447


<210>  667
<211>  431
<212>  DNA
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<223>  n = unknown

<400>  667
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acaatntatt taatacttat gggctagaan ngcaaagtgt aaagntcaag gtttgtatag     120
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cttaataaag taaacatttt aaaatgnaat gaatttatct gcaaatagtc aaaatcaaaa    180

ttactatata atgattattg aaataatgct tttatagatt gcatttcaat ctgnattaaa    240

ttgtatgtaa atcacagcac aagatctaac acacaattca tctaacagaa agaacaaaat    300

aattttaatg ttattaaaaa ttacatataa aataactttt acaataaagt aaccttacat    360

gagatgtgtt gatttcagat acttttcata caacagtgct ttctgtataa acaatataat    420

ataaataacg g                                                         431
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<210>   668
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<400>   668
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gatgtgtgcc aaatttaaaa tactattgna tatttaattt tttttctata ttcacatttt    120

cattatattt ctaatctaat atccccaaat ttcaactaag aagttaaatc ctttgccagt    180

ctgagaagat aggagtaaag ttacattttt ccagccaact ccaccattga caagagtggc    240

atagcctcct tggccattta catattggtc cagggcacga acacagctaa ttgtgcgatt    300

atttctcgat cccactggtg gaaatgacac ctctctagta gctttcctga aaaagtttcc    360

actcttggat tggacttgac ggt                                            383
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<210>   669
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<213>   Ctenocephalides felis


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atatgataag gcattnaaga atnttacaat ttanattttt ttaaatccat gaatatattt    120

gntctaatca aaattattca ttttacgctt aattttattg gttgaactaa tagatagata    180

gataaagata tagagttaat ataaaaatga ngaaaata                            218


<210>  670
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gcatccatat attgnaacgg cgaactgagt gtattaaatt ctccaaatgg agtccaattc    120

caaggcgaga ctcctttacc ccaatctttg ttaaaggaat tgtattccgt agccttagga    180

ttgacatcgg agcagagttc tgctgaatgg gacggagtga gtaaattgaa tccttttcaa    240

ttacctaaag ctgtagtcac tgtagttgta gaaggcactg ataaacttag tttggattcg    300

aagaatacat atcctttggt tgtggatgag gaattggata atacttggga ctctttggat    360

aaacgcttta aagaacgcta cccctttgat gatttgactc tcgtgaacct ggaattacct    420

aatggtaacg tcaattctga gcgtgtcttt ggtgttgtat cacccaaacc ggt           473


<210>  671
<211>  543
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<222> (410)..(410)
<223> n = unknown

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<223> n = unknown

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gtaatttcat aaagnnncta tatttatata ttttaaataa tcagaaatta ctatagttaa     120
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tgacattttg tttgngctcc ttacataaaa tacaatttta tacattttaa tttttataca      180

tattttttat atttaattgc acagatcatt tgngtatttta ttatattaat tgactacttt     240

atgacaattt gaatcctaat tagtctattc aagattgntt tcctggttta agccttactt      300

agcaatctca cttttgcatt cttcgccggg tggngtgggt atgcatcgca actccgtttt      360

atcaaagtgc aagccatttg acaatcata atgntttatt tgccatttgn tgntaaccaa       420

gaaacattga taatattttt tacaatctct tcgatcggaa aaaacgtttt cacttttgca      480

tgcagtctgc ccgagaaaga ntttgggtca aaccattcgt tggcgtcgnc ttcacatttc      540

agt                                                                    543
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<210>   672
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nntactaggg ntaatgacat tttgtttgtg ctccttacat aaaatacaat tttatacatt      120

ttaatttta tacatatttt ttatatttaa ttgcacagat catttgngta tttattatat       180

taattgacta cttttatgata atttgaatcc taattagtct attcaagatt gntttcctgg     240
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<210>   673
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<211>   210
<212>   DNA
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<400>   673
cggaagcacc ttagctgtgc aggacatgta actgtatagc attttgtgcc cagagccata        60

ggtccgcaat tatgacgtaa cggatcatat gcaaaatttg cggggcaata atattgggtt       120

cctatactat tttcgtcaca ataataatag ctttgacaat cacttatatt tggataaaat       180

ctcgatggtg acggacattt gaaaccttgt                                        210


<210>   674
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agnatttcct caaaaactgt taaatacaat aagttaactt aaatacatgg atgttctgag       120

aatgtggatg agctcaanat tgtagaactg agtttgatct acacaatttt tgcctaaaag       180

gttcgactac tcanaaagca gccacccgtg attccatacc gcctcacatt tgacaataaa       240

atatatgtat aatgttaaat aggattttaa tggaaaaaag ccaatttaat actttagcat       300

tatgaatatg tatttccaaa ttattctata acgaatttaa cctaaaatac aagaaatcat       360

attcataaat atacatatat tttaatacaa aaaggnagct tg                          402
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<210> 675
<211> 272
<212> DNA
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<223> n = unknown

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tgtcgttaat tactaattca aagtttcata cgatatgtca tatgctaatt ttagatttat   120

tatcataaat aaatttatta tttaaatcat attagaggaa aaaaaaatat tttctcaatt   180

ctctccttca aaacttcttt gcacttctcc ggctccatac agttttaata ccactttttt   240

cacaaaattc aacatttttg taaaatccat tg   272

<210> 676
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<212> DNA
<213> Ctenocephalides felis

<220>
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ggcatccata tattgcaacg gcgaactgag tgtattaaat tctccaaatg gagtccaatt   120

ccaaggcgag actcctttac cccaatcttt gttaaaggaa ttgtattccg tagccttagg   180

attgacatcg gagcagagtt ctgctgaatg ggacggagtg agtaaattga atccttttca   240

attacctaaa gctgtagtca ctgtagttgt agaaggcact gataaactta gtttggattc   300

gaagaataca tatcctttgg ttgtggatga ggaattggat aatacttggg actctttgga   360

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taaacgcttt aaagaacgct accccttttga tgatttgact ctcgtgaacc tggaattacc    420

taatggtaac gtcaattctg agcgtgtctt tggtg                                 455
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<210>   677
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<220>
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acaacaaatg gcaaataaaa cattatgatt gtccaaatgg cttgcacttt gataaaacgg     180

agttgcgatg catacccacg ccacccggcg aagaatgcaa aagtgagatt gctaagtaag     240

gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat cataaagtag     300

tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa atatgtataa     360

aaattaaaat gtataaaatt gtattttatg taaggagcac aaacaaaatg ncattaacta     420

tagtaatttc tgattatttta aaatatataa atatagaagc tttatgaaaa aaaaaa        476
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<210>   678
<211>   399
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aacaagcata ctgntacaat gnatgtctat gaaaaaccca attgattgac aactgncaat   180

taaacatctc tggaagaaca aaaaatattc cagagagaac ttaaaaacct tgnattcttg   240

atcaatatat tcataaacaa tgcttgaagt ggcaggattt taatagacaa tacatcaact   300

aggattatna acgacacaac tttgtcaaac ttgtttaaac agnttgaatt ggntctcata   360

gtattttaat tttgaanggg gtgnaaaaac attatttat   399

<210> 679
<211> 373
<212> DNA
<213> Ctenocephalides felis

<220>

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<221>  misc_feature
<222>  (346)..(346)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (357)..(357)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (362)..(363)
<223>  n = unknown

<400>  679
tgtcaagtcc aatccaaaag tggaagcttt ttcaggaaag ttactagaga ggtgtcattt      60

ccaccagtgg gttcaagaaa taatcgtaca atcagctgtg tccgtgccct agaccaatat     120

gtaaatggcc aaggaggcta tgccactctt gtcaatggtg gagttggctg gaaaaatgta     180

actttactct tatcttctca gactggcaaa ggatttaact tcttagttga aatttgggga     240

tattagatta gagatttaat aaaaatgtta ttatagaaaa tatattaaat atacaatagt     300

attttaaata tggcacacat ctatctatgc atccataaat aaaggntatc tactgcnttc     360

cnnaaaaaaa aaa                                                        373


<210>  680
<211>  130
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (65)..(65)
<223>  n = unknown

<400>  680
cttttgcatg taggaccaat ggatcgcgaa atagtccaac tcttggacaa atgaatggtt      60

gctgncaaat acgaacgctg ctggaatttg tttcaactgg aattagttct tgagactcca     120

aagacaatgt                                                           130


<210>  681
<211>  448
<212>  DNA
<213>  Ctenocephalides felis

<400>  681
cccaaaatct ttctcgtgca gaactgcatg caaaagtgaa aacgtttttt ccgatcgaag      60

agattgtaaa aaatattatc aatgtttctt ggttaacaac aaatggcaaa taaaacatta     120
```

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```
tgattgtcca aatggcttgc actttgataa aacggagttg cgatgcatac ccacgccacc    180

cggcgaagaa tgcaaaagtg agattgctaa gtaaggctta aaccaggaaa acaatcttga    240

atagactaat taggattcaa attatcataa agtagtcaat taatataata aatacacaaa    300

tgatctgtgc aattaaatat aaaaaatatg tataaaaatt aaaatgtata aaattgtatt    360

ttatgtaagg agcacaaaca aaatgtcatt aactatagta atttctgatt atttaaaata    420

tataaatata gaagctttat gaaattta                                       448
```

```
<210>    682
<211>    276
<212>    DNA
<213>    Ctenocephalides felis

<400>    682
catataaatt gttgaagaaa agttgtttat ttgtatttat ttgtaaatat tgttaaagtt     60

aaatatataa agattggttt tatgggttat atgtctaaca tttattttgt aacatacagt    120

taagaacaca atagaaaaat catttaatta gttggatatt tttagtataa gtattcctgt    180

gtagatagca agttgtgact acagaataaa tatctgattt tatcacaagg taaaaaaaaa    240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                               276
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<210>    683
<211>    348
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<213>    Ctenocephalides felis


<220>
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<222>    (62)..(63)
<223>    n = unknown

<220>
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<223>    n = unknown

<220>
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<222>    (87)..(87)
<223>    n = unknown

<220>
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<222>    (110)..(110)
<223>    n = unknown

<220>
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<222>    (165)..(165)
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<223> n = unknown

<220>
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<222> (176)..(176)
<223> n = unknown

<220>
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<222> (181)..(181)
<223> n = unknown

<400> 683
cccgacaggc ccaaatctcg atagttacgc gactcataaa taattttta aacattgaat   60

gnnaaaaaaa attaangggg gcaaagntaa tatatgtatt ggattaactn agttaattct   120

ccctcgcaat tttatactat agtaaccaga aacaaaaatc agagngtgta aaatgnaaat   180

ncatatattt ttggtaaaaa tacaatcaag atataacagt gccacaatat tattaaaata   240

cgtatttgtg acgaaaccta aagtgtagtc agaatataaa aaacaataat atttatacct   300

tcaaatgtat gctttgaaaa aaagcattcg aagattatgt ttaaatat   348

<210> 684
<211> 255
<212> DNA
<213> Ctenocephalides felis

<400> 684
cggcgacaaa acacttgaag ataaattctt tgaacatgag gttcatctca atgtgtttgc   60

tttcttgcaa caattccatt tcggagtatt' ttactcttat ttgaaactca aggaacaaga   120

gtgccgtaac attgtttgga taagtgagtg cgttgctcaa aagcacagga ccaagattga   180

caactacatt ccaatatttt aattaatttg ttgttaattt tgataacgtt gattttatcc   240

agatgtttgt tgtgt   255

<210> 685
<211> 378
<212> DNA
<213> Ctenocephalides felis

<400> 685
cgtcaagtcc aatccaagag tggaaacttt ttcaggaaag ctactagaga ggtgtcattt   60

ccaccagtgg gatcgagaaa taatcgcaca attagctgtg ttcgtgccct ggaccaatat   120

gtaaatggcc aaggaggcta tgccactctt gtcaatggtg gagttggctg gaaaaatgta   180

actttactcc tatcttctca gactggcaaa ggatttaact tcttagttga aatttgggga   240

tattagatta gaaatataat gaagatgtga atatagaaaa aaaattaaat atacaatagt   300

```
attttaaatt tggcacacat ctatctatgc atccataaat aaaggttata tacagcattc      360

aaaaaaaaaa aaaaaaaa                                                     378
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<210>  686
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (59)..(59)
<223>  n = unknown

<220>
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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

<220>
<221>  misc_feature
<222>  (374)..(374)
<223>  n = unknown

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tttttttttt tttttttttt tttttttttca cggcccaaac gatttatttt tattaaaang      60

atncatgtaa tttcataaag cttctatatt tatatatttt aaataatcag aaattactat     120

agttaatgac attttgtttg ngctccttac ataaaataca attttataca ttttaatttt     180

tatacatatt ttttatattt aattgcacag atcatttgng tatttattat attaattgac     240

tactttatga taatttgaat cctaattagt ctattcaaga ttgttttcct ggtttaagcc     300

ttacttagca atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc     360

cgttttatca aagngcaagc catttggaca atcataatgt tttatttgcc atttgttgtt     420

aaccaagaaa cattgataat atttttaca atctcttcga tcggaaaaaa cgttttcact     480

tttgcatgca agtctgcacg                                                  500
```

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<210>  687
<211>  114
<212>  DNA
```

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<213>  Ctenocephalides felis

<400>  687
agcattgtat aactctgcag gggtggcagc tacatgaata gcctccattt gttcgaaact      60

tccaagtggg tggcatttgg gaatcaattc agaaattggt ctctgatgta gtgt          114


<210>  688
<211>  221
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (34)..(34)
<223>  n = unknown

<400>  688
tatataatct gattctcgat ttgtatcttc atanctgatt ctcagatatc cattaccgga     60

atgttcatca ttacgtctga gttgtccact aaattcaact ttttttccat tttcttccat    120

gacatgtctg aattttattt taccatcaac taaagattcc atgtgagctc ttgcgcaagt    180

tccatctcgt tcaaaatgat tttggtatct atattgttcg t                       221


<210>  689
<211>  103
<212>  DNA
<213>  Ctenocephalides felis

<400>  689
gacttcttca attgggccta ccatatagaa agctacttca ggaagatgat cgtattcacc     60

tgcaagaatc ttggtgaagc ccttgatggt ttcttctaat ggt                      103


<210>  690
<211>  411
<212>  DNA
<213>  Ctenocephalides felis

<400>  690
tttttttta aacttcataa aatcattata attcttaaac aattataaat gaatgctgta      60

tataaccttt atttatggat gcatagatag atgtgtgcca aatttaaaat actattgtat    120

atttaatttt ttttctatat tcacattttc attatatttc taatctaata tccccaaatt    180

tcaactaaga agttaaatcc tttgccagtc tgagaagata ggagtaaagt tacatttttc    240

cagccaactc caccattgac aagagtggca tagcctcctt ggccatttac atattggtcc    300

agggcacgaa cacagctaat tgtgcgatta tttctcgatc ccactggtgg aaatgacacc    360

tctctagtag ctttcctgaa aaagtttcca ctcttggatt ggacttgacg g            411
```

```
<210>    691
<211>    498
<212>    DNA
<213>    Ctenocephalides felis

<400>    691
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcagaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg     240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt     420

cattaactat agtaatttct gattatttaa aatatataaa tatagaagct ttatgaaatt     480

acatgtatct ttttaata                                                  498


<210>    692
<211>    395
<212>    DNA
<213>    Ctenocephalides felis

<400>    692
ttagcccaag tttcacagca ggtttggcag tcactataat agtatactcc ctttcatttt      60

ctcctgaacc aactttgcat gtgtaagagc cagcatcatc ttgttcagtt ttttcaataa     120

tgaattgatg ttcttccttt attaattggt aacggtcctt gagatcattg atttcttcta     180

ctttttttctc atctttaaac cactgatcaa caggaccatc tttcaatgga caggttagaa     240

ccaatggact acgaatatca aaaagttttt gcgacgtggc ttcaccttct ctggcataaa     300

cactgctttg gaccaaaaat aataaaattg cactacacaa aaactgcttc atatttattg     360

aattttcttc ccctcgattg aaatagttca taagt                               395


<210>    693
<211>    499
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (68)..(68)
<223>    n = unknown
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<400> 693

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ctgaaatgtg aagacgacgt caacgaatgg tttgtcccaa aatctttctc gtgcagaact    60

gcatgcgnaa agtgaaaacg ttttttccga tcgaagagat tgtaaaaaat attatcaatg   120

tttcttggtt aacaacaaat ggcaaataaa acattatgat tgtccaaatg gcttgcactt   180

tgataaaacg gagttgcgat gcatacccac gccacccggc gaagaatgca aaagtgagat   240

tgctaagtaa ggcttaaacc aggaaaacaa tcttgaatag actaattagg attcaaatta   300

tcataaagta gtcaattaat ataataaata cacaaatgat ctgtgcaatt aaatataaaa   360

aatatgtata aaaattaaaa tgtataaaat tgtattttat gtaaggagca caaacaaaat   420

gtcattaact atagtaattt ctgattattt aaaatatata aatatagaag ctttattgaa   480

attacatgtt ctttttaat                                                499
```

<210> 694
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (65)..(65)
<223> n = unknown

<400> 694

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cctagtgagt gtgttatatg aaattgctat tgcatattac atacaagctt aataaaggtt    60

atggngattt atttgcattt aaaggcaatg tatcggttta atggttttaa atttattttt   120

tatttaatat aaatagatt aattaaaaat ctataaagtg ataagaggcc tgatatccat   180

aatattattg aatattaaga agtgacggat agatctgata atgtagtagt tgttatagac   240

aatttactta ataattatga gttgcatcat tatgcaatga tttatcacta ttatttattc   300

aacattttat ttaactgctt gcaacttttta ataaaacgca ttttttattg ttttaagtat   360

aaatcttatt agggcacaat atgaaaataa aaataagaac tttatcaaaa gcttttttta   420

tcaatatgct tcttgcgcta ttaagttaag aaattttatt tatgcttgta aaaaacaaat   480

aaatgcttta ttattcga                                                 498
```

<210> 695
<211> 498
<212> DNA
<213> Ctenocephalides felis

<400> 695

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taatgtcgta gaaggtgaaa aactgcgagt tgtttgcaca gttgtaggca aacctacacc    60
```

```
aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgatc gaatcaaatt    120

gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga    180

tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac    240

aaccttggtt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc    300

tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca caaagctga     360

aatggaggag agtgatacag atcaaagtcc agatcgaaaa aatactcctg atcacatgaa    420

ggacactgat gtgaggcata ggaagtaaac caaaaattta atctagttga ataaaagtta    480

atgcaccaga gtaggaag                                                  498
```

```
<210>    696
<211>    153
<212>    DNA
<213>    Ctenocephalides felis

<400>    696
tttacctttg tacgtagggg cacaaattcc acgaagtttt tgtcatagaa gtcatccaaa     60

gcacgcatat atttactgta tgaaatcaac caattgattg aagggaaatg tttcctttga    120

gctaatttct tatccaaacc ccagaacact tgt                                  153
```

```
<210>    697
<211>    204
<212>    DNA
<213>    Ctenocephalides felis

<400>    697
cagttaatga tctacaactt gttcaaaaag ccttaactga tggatcgaac gcgtgtggaa     60

gttcaatcga atccttccta aatgttattg aaactgaaga agcacctcca acctttaata    120

gaactaacaa attcactcaa ggtttccaaa acttgataga tgcctacgga gttgctagtt    180

acagagaagt aaatccagct ctgt                                           204
```

```
<210>    698
<211>    399
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (373)..(374)
<223>    n = unknown

<400>    698
caaatatcta gcatgccaac attcgtgttc ctgaaaaacg gaaccaccgt aaccacgttc     60
```

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actggtgcga actacgacaa agttcgggaa accattactt ctaatttata aatctttatg    120

ctgagtgcct gctatagatg tttaggctta gatttcaaaa ttttaatgtt tcagaaaatt    180

gttcatgttt gcacaaatta tatgtatata tttttttctta acttcaaatc ctaaaattac    240

ttcattgtgc tattttattc attaagcgta ttctacatag atcacatagt gtctttatca    300

gtgagcagtt catagtatat ttaagctaat atatttttttg ttactgtatg agttcataaa    360

ggttataaca tannaaaaaa aaaaaaaaaa aaaaaaaaa                           399
```

```
<210>    699
<211>    487
<212>    DNA
<213>    Ctenocephalides felis
```

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<400>    699
atattatatt cacaataatc taatcttcca agttgcggaa tgcttgctgt aaatcctcat     60

gtaattgatc aaaatcactc ttgatctttg cctcaccatc cttgactggg tccttgaact    120

tcattgagga caactgatat agaatattgc ccatagcatc tctaatggta ttccaggtaa    180

tcttgttttc actttgtgca gtagattcaa ctgcgtattt tgccatatca tagaaagcaa    240

taatgttacg taacatacca actgttttat agaaggggca gaaacgatca tatgatgagt    300

agctgttctg ctgtaggaaa tcgtctttca agagcttggc aacttcaagt gtgatcttgt    360

cagtttccgc caaggaggct ttaccaacca attgtacaat ttctgataaa tcttcttctt    420

cttgcaaaat ttcctttacc tttgtacgta ggggcacaaa ttccacgaag ttttgcatag    480

aagtcat                                                             487
```

```
<210>    700
<211>    393
<212>    DNA
<213>    Ctenocephalides felis
```

```
<220>
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<222>    (346)..(346)
<223>    n = unknown
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ctcctgaacc aactttgcat gtgtaagagc cagcatcatc ttgttcagtt ttttcaataa    120

tgaattgatg ttcttccttt attaattggt aacggtcctt gagatcattg atttcttcta    180

ctttttttctc atctttaaac cactgatcaa caggaccatc tttcaatgga caggttagaa    240

ccaatggact acgaatatca aaagtttttt gcgacgtggc ttcaccttct ctggcataaa    300
```

```
cactgctttg gaccaaaaat aataaaattg cctacacaaa aactgnttca tatttattgg      360

aatttctttc cctcgattga aatagttcat aag                                   393



<210>    701
<211>    452
<212>    DNA
<213>    Ctenocephalides felis

<400>    701
aacaaaaaga taatatattc taaatatagt ttcaatcaat gatattttct aaattgagga       60

taattaggct atattatgtc ggtaattcat tttatatata tagaaactca tgtgcaccca      120

aatccggtct ggcttcatca taaaatgaaa ttcaaaatac tgttacaatt ggtttggccc      180

gagataaata ctttgtacac aacaaacatc tggataaaat caacgttatc aaaattaaca      240

acaaattaat taaaatattg gaatgtagtt gtcaatcttg gtcctgtgct tttgagcaac      300

gcactcactt atccaaacaa tgttacggca ctcttgttcc ttgagtttca aataagagta      360

aaatactccg aaatggaatt gttgcaagaa agcaaacaca ttgagatgaa cctcatgttc      420

aaagaattta tcttcaagtg ttttgtcgcc gg                                    452



<210>    702
<211>    343
<212>    DNA
<213>    Ctenocephalides felis


<220>
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<222>    (84)..(84)
<223>    n = unknown

<220>
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<223>    n = unknown

<220>
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<222>    (244)..(244)
<223>    n = unknown

<400>    702
ttttcatgtc gatgttttag aaaatgattc agtagcaact tctgaatttt ctttgtaatc       60

gataatactt tctcaaagta taantgcatt tcacaacaca cgacggaaat atggttatgg      120

nccatatgaa gcaatgctcg ttcttctatc cacttgcttc tgataaatgt tcggtataaa      180

gaatgcaatc actccacatg ctatcagaga tgttcctgat attaaaaatg ttaaatcgca      240
```

```
attntaatct agaattattc ctacaacatt gctttcaaca acacttccta atcgacccat    300

cattaaagat atacatactg ccattgccct gagttgggta ggg                       343
```

```
<210>   703
<211>   386
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<223>   n = unknown

<220>
<221>   misc_feature
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<223>   n = unknown

<400>   703
cctacacaac tcagggcaat ggcagtatgt atatctttaa tgatgggtcg attaggaagt     60

gttgttggaa gcaatgttgt aggaataatt ctagattata attgcgattt aacatttta     120

atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat    180

cagaagcaag tggatagaag aacgagcatt gcttnatatg gaccataacc atatttccgt    240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca    300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgn    360

tattagattc gatgtaagat atatgt                                         386
```

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<210>   704
<211>   492
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (312)..(312)
<223>   n = unknown

<220>
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<223>   n = unknown

<220>
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<222>   (386)..(386)
<223>   n = unknown

<220>
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<221>  misc_feature
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<223>  n = unknown

<220>
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<222>  (441)..(441)
<223>  n = unknown

<220>
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<222>  (449)..(449)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (457)..(457)
<223>  n = unknown

<400>  704
tgaaatgtgg aagaccgacg tcaaccgaat gggtttgtcc caaaatcttt ctcgtgcaga      60

actgcatgca aaagtgaaaa cgttttttcc gatcgaagag attgtaaaaa atattatcaa     120

tgtttcttgg ttaacaacaa atggcaaata aaacattatg attgtccaaa tggcttgcac     180

tttgataaaa cggagttgcg atgcataccc acgccacccg gcgaagaatg caaaagtgag     240

attgctaagt aaggcttaaa ccaggaaaac aatcttgaat agactaatta ggattcaaat     300

tatcataaag tngtcaatta atataataaa tncacaaatg atctgtgcaa ttaaatataa     360

aaaatatgta taaaaattaa aatggnataa aattgtattt tatgtaagga gcacaaacaa     420

aaatggcatt taactttngt natttctgnt ttatttnaaa atattataaa ttttggaagc     480

tttatggaaa tt                                                         492
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<210>  705
<211>  323
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
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<223>  n = unknown

<220>
<221>  misc_feature
<222>  (48)..(48)
<223>  n = unknown

<220>
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<223>  n = unknown
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<220>
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<223> n = unknown

<220>
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<223> n = unknown

<220>
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<223> n = unknown

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aatgtttctt ggttaacaac aaatggcaan ttaaacatta tgattgtcca aatggcttgc   120

actttgataa aacggngttg cgatgcatac ccacgccacc cggcgaagaa tgcaaaagtg   180

agattgctaa gtnaggctta aaccaggaaa acaatcttga atagactaat taggattcaa   240

attatcataa agtaggcaat taatataatn aatacacaaa tgatctgtgc aattaaatat   300

aaaaaatatg tatnaaaatt aaa   323

<210> 706
<211> 0
<212> DNA
<213> Ctenocephalides felis

<400> 706
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<210> 707
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anttaataaa ttaacaacgg gcttagcaat tatanatatn ncagctcact actacaaatt    120

acatattttt atcaatcata tatatatata tatagttttt ggtttaagat atataacaac    180

aatgtttcta tcgcacatat cattaaatat actttcatat gcgacaagac aagttttttgc   240

attaaaaaaa tatatgttac taatgacaat atttagaatc acacttgaag actcctcctc    300

ggagccttcg gggggcgcga gttaaacaac aatg                                334


<210>  708
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tagtttataa atttgccgta tngaaacaat aataaattac agtncataat actgatttga     120

ttttactacc cgtaaccgat tctgcttcag atatttccag aaaaatgtta gttttcatac     180

attttatttaa atttaatatc tcccgacttg ntattactaa gcgaaatttt ctctnttta     240

aatatagaat tctttatagt attcataata gncgaagctt taaagtattt cttctcacta     300

tcacccttt ttatacaaac gcattttgag aagtaacgtg aaagcttact ttcgaattgg     360

tgatgtttct atgaatactt tatatgnatt ataatatgta ttaaattgaa ttttt         415


<210>  709
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<400>  709
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tgatcaaaat cactcttgat ctttgcctca ccatccttga ctgggtcctt gaacttcatt     120

gaggacaact gatatagaat attgcccata gcatctntaa tggtattcca ggtaatcttg     180

ttttcacttt gtgcagtaga ttcaactgcg tattttgcca tatcatagaa agcaataatg     240

ttaccgtaac ataccaactg ttttatagaa ggggcagaaa cgatcatatg atgagtagct     300

gttctgctgt aggaaatcgt ctttcaagag cttggcaact tcaagtgtga tcttgtcagt     360

tttcgccaag gaggctttta ccaaccaatt gtncaaattt t                        401
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ggacatatgt gggcgaattc ctgtcagcag ccacagcacc caaggcaaac actgcaacca     120

ataaagcttc taagaacttc attgtgaaaa cttattccta agtaaaat                   168
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ataaatataa ataanaaatc ataattcgac aattttactc gtatttatct taaacatatt   120

tacagtattt cctcaaaaac tgttaaatac aataagttaa cttaaataca tggatgttct   180

gagaatgtgg atgagctcaa gattgtagaa ctgagtttga tctacacaat ttttgcctaa   240

aaggntcgac tactcagaaa gcagccaccc gtgattccat accgcctcac attngacaat   300

aaaatatatg tataatgtta aataggattt taatggaaaa aagccaattt aatactntag   360

cattatgaat atgtatttcc aaattattct ataacgaatt taacctaaaa taccaaggga   420

atacatattc ataaatatac atatattttt aataccaaaa g   461

<210>   712
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ccaccagtgg gatcgagaaa taatcgcaca attagctgtg ttcgtgccct ggaccaatat   120

gtaaatggcc aaggaggcta tgccactctt gtcaatggtg gagttggctg gaaaaatgta   180

actttactcc tatcttctca gactggcaaa ggattaact tcttagttga aatttgggga   240

tattagatta gaaatataat gaaaatgtga atatagaaaa aaaattaaat atacaatagt   300

attttaaatt tggcacacat ctatctatgc atccataaat aaaggttata tncagaanaa   360

aaaaaaa   367

<210>   713
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<212>   DNA
<213>   Ctenocephalides canis

<400>   713
acaaccattc gaaattccaa aaggaaattt actattgaat gattaaatgt aatagattaa   60

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tcaaattttta gatgattaaa attgttctat tactacaata gcaacctctg cctgaaaatt    120

aaccgaacaa acttctaaca tccttattaa tgtatagatt ttgaataata acatagaaat    180

tatactattt ttttgatgac tctaataaaa aaaatgtata aatggccatg cctgatatat    240

ttttgataac cttaatgaaa aaatgtttaa atggccatgt ctgaaaagat ttctatgtgt    300

atttttttgt taacatttta ttgttgaatg gataaaagat aaatcaattt tataaagctg    360

tttggataaa ttaatttgaa taaatcataa tcatagaata tgttaaggta gccaaataaa    420

atatggccca caaaccccaa aaatggtt                                       448
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ttaccatcct taccatcttt tccaaccttg ccaacatctt ccccaacagn aggatttcct    120

tttggccgaa aatctcttga tatgcaaaca aaaactggag ctaaatgt                 168
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ttctccatga gctgcttttg gcggtgcctt tggtgcctct ggcataccgt tttcttggct    120

ggagacaacg tctgaagtca tttccattcc ttggttcaaa tcaccatttg atttagcaga    180

atgaggagct tcatctttat ttttcttggt tgccatcaaa tataatggtt tgcccaagag    240

catgagcgga atacagcaga gcccaattaa cacaaatatt ttttgaattt gctgttgtcc    300

ttcaaacata aattcatcgc aatgttctgc tggagatcct tgcttgaata acatcatgtt    360

aatgaacaga atcaaaactg atggtgcgca gcaagggttc aaatctgatg tctgtattat    420
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<210>   716
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ttcctcgtcc gcaacgacat agtcgttttg caagatttat ccatgtataa ttttcgccat    120

tcgtacccaa aattctcttt ggatcttgat catgttaaag ttgctttaac ggcattggct    180

cgtatgcatg caagttgcat tatctacgag aagaaaaaaa attgttgcat ggggagagtt    240

tacaaagatc ttatgttcga gactatggcc aataataatc aatggtggag gactggagag    300

gatactgctt tagcaattgc tgaggaatct gagaaattcg gtaaatatac cgaatccatt    360

ccatggtaca ggagaagtta attgatttcc tgagattggc atggtctatg gtaaaaccat    420

cgcgcattta taaaaatgtg gtatgccccc gcgatcgcgc aatccaaatt ngtggtcnaa    480

tttaattcaa ctgggcta                                                   498


<210>   717
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tattaagtat aatatattta gttattctta aacatcagtt gttttgataa agctgtatct    120

taaaaggact ttatatacag naattatctt cagaaatcct ttccacaatt ttgctcggtg    180

tgttttaagt ttgtcaacat ctatgggtgt attatttttc acatatgtcc aaatttcttt    240
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cattaattcc gacgatgggt tttgctcacg tgtgagaatc ccaagctaat tctatttttc      300

ctcgaggatg aatagtgcag cttccttaca acagcaaatt tatcaaaa                   348
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gcatgagacc attacgaata caagaattgg aagcnttccc acagagtnaa taatagcacc      120

tattatggga aatccaatcg catatccagc ttncaacatt aaagaatgca taaatgcctg      180

ttnttccatt gtgtctttac actcggccg                                        209
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ctcgtgcaaa tctcttcctc gcattccaga caagtttcct tatcgcattt gtaggtgtcg      120

gtgcagcctc tcttcacttt atctccgtca atatctaagt agcatttgcc catgcatttg      180

gtcttcgtct cgactttttc agggtccgtc aaggcaattt tcatcatttt catcacaaga      240

aacacattcg tgttttttgg catcaccatt gcattcgttt ttgtcacaag ttgggcaacg      300

ttctggtttt ttctcgcaca ttttttttcag attctggttc ttgaacaggt tgctggtgca      360
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ccctaatttt atggcatcac cttgtgcatt taaaatactc aaacaagtat cttgtggctt    420

gagacaaact tccttggcat catctttagc gttgcaaacc ctgcgatttc tttggggaaa    480

aacatcgaca ttaccaaagg                                                500
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ctctcttcac tttatctccg tcaatgtgta agtagcatct gcgcatacac ttggtcttcg    120

tctcgacttt ttcaggatcg tccaggcaat tttcatcatt ttcatngcag gaaacacatt    180

cgntgttttt tagcatcacc attgcattca ttttggtcac aagttgggca acgttctggt    240

tttttctcgc acattttttt nagattttgg ttcttgaaca ggttgctggt gcagcctaat    300

ttgatggcat naccttgtgc attcagaata ctcaaacaag tatctttagg attgagacaa    360

actttcnttg gcatcatctt ttagcattgc aaaacccctg cgatttcttg ggaaaaacat    420

cgatattaca aaaggtacct ttgcacttct tggcatttt                           459
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<210>   721
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<213> Ctenocephalides canis

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aaatttgttt ctaatgattt ttgctntaca gaaaatttna tcaaaataat tcatatacaa     120

tattatgtaa aattaaaata tgtaagttaa tacaatttag aatgatatca gtatgacaaa     180

ttgtggaaat atttaccttt acaaaagtna aaacaaaaat ttnggaaata ggaaaaataa     240

taagaaatta ttttanaata attttgcctt atacttatga attttaaaag aatattttc      300

ctactaaaat accttancaa ttaccnaaaa tcattacccc ttggaatata aaaaantcta     360

atcttggaat aaaagggtta gggtatttta aaacaaattc nnattttttt ttattttcan     420

agggcga                                                               427
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<210>   722
<211>   473
<212>   DNA
<213>   Ctenocephalides canis


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aatctaaaaa caatttaaat tagcaaaacc aagtgtattt gaatttcatt tttgcacaag     120

ctaccttttt gtattaaaat atatgtatat ttatgaatat gtatttcttg tattttaggt     180

taaattcgtt atagaataat ttggaaatac atattcataa tgctaaagta ttaaattggc     240

ttttttccat aaaatccta tttaacatta tacatatatt ttattgtcaa atgtgaggcg      300

gtatggaatc acgggtggct gctttctgag tagtcgaacc ttttaggcaa aaattgtgta     360

gatcaaactc agttctacaa tcttgagctn atccacattc tcagaacatc catgtattta     420

agttaactta tnggatttaa caggtttttg ggggaaatac tgcaaatatg ttt           473
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<210> 723
<211> 204
<212> DNA
<213> Ctenocephalides canis

<400> 723
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gttcaatcga atccttccta aatgttattg aaactgaaga agcacctcca acctttaata   120

gaactaacaa attcactcaa ggtttccaaa acttgataga tgcctacgga gttgctagtt   180

acagagaagt aaatccagct ctgt   204

<210> 724
<211> 439
<212> DNA
<213> Ctenocephalides felis

<400> 724
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aacagtgtca tggaaagtta ttaatgagac ttatgacgaa tcatccgatc gaatcaaatt   120

gttagatcat gacaatatac caaattctgc tttggaaatt gatttggctg aaaaaagcga   180

tcgaggagaa tatacatgta ttgctactaa tcaaggcatt ggaattactg ttaattctac   240

aaccttggtt cgagttcaag ataaattagc tgctttgtgg ccatttttgg gtatctgtgc   300

tgaagtaata attttatgcg cgattattct catttatgaa aagaaacgca caaagctgaa   360

atggaggaga gtgatacaga tcaaagtcca gatcgaaaaa atactcctga tcacatgaag   420

gacactgatg tgaggcata   439

<210> 725
<211> 406
<212> DNA
<213> Ctenocephalides felis

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aatcaaattt tagatgatna aaattgtnct attactacaa tagcaacctc tgcctgaaaa    120

ttaaccgaac aaacttctaa catccttatt aatgnataga nnttgaataa taacanagaa    180

annatactan ttttttgatg actctaanaa aaaaaatgta taaatggcca tgcctgatat    240

atnttngata accttaanga aaaaatgttt aaatggccat gtctgaaaag atntctatgg    300

gnatttttnt ggnaacattc tattgntgaa tggataaaag ataaatacaa ttttataagc    360

tggnntggat aaattaattt tgaataaaat ccaaaatcat agaata               406


<210>  726
<211>  131
<212>  DNA
<213>  Ctenocephalides felis

<400>  726
cttttgcatg taggatccaa tggatcgcga aatagtccaa ctcttggaca aatgaatggt     60

tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagactcc    120

aaagacaatg t                                                         131


<210>  727
<211>  167
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<212>   DNA
<213>   Ctenocephalides felis

<400>   727
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taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca ggacttccct   120

ttggccgaaa atctcttgat atgcaaacaa aaactggaac taaatgt   167

<210>   728
<211>   386
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<213>   Ctenocephalides felis

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atatcaggaa catctctgat agcatgtgga gtgattgcat tctttatacc gaacatttat   180

cagaagcaag tggatagaag aacgagcatt gcttcatatg gaccataacc atatttccgt   240

cgtgtgttgt gaaatgcaat tatactttga gaaagtatta tcaattacaa agaaaattca   300

gaagttgcta ctgaatcatt ttctaaaaca tcgacatgaa aattaataac tctttattgt   360

tattagattc gatgtaagat atatgt   386

<210>   729
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<212>   DNA
<213>   Ctenocephalides felis

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catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt   120

tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaaggagcac aaacaaatg   420

tcattaacta tagtaa   436

<210>   730
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaaatt tgtttttatg taaggagcac aaacaaaat   420

ggtcattaac ctattagtaa atttctg   447

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<212> DNA
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tatggttcgg agtagccttt ttcttctcgt tacttgctat ctgtatctcg atctccacaa   180

tggaccctgg cagggactcc attatttaca gaatgacatc cacacgcatc aagaaggaga   240

attaaagttt gcgaaggag tgttttttaat tgtaaataga ttgtttagta ttattacaat   300

gtaaccgagt tattaatttg tgatcaatat aaattaaaaa ttaaaataca atatctttgt   360

tgaaaatcga attattgntc tattatattt tttgtttttac attcctagta ttaccgaatt   420

gt   422

<210> 732
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<212> DNA
<213> Ctenocephalides felis

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<223>  n = unknown

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aaaaaatatt atcaatgttt cttggttaac aacaaatggc aaataaaaca ttatgattgc   120

caaatggctt gcactttgat aaaacggagt tgcgatgcat acccacgcca cccggccgaa   180

gaatgcaaaa gtgagattgc taagtaaggc ttaaaccagg aaaacaatct tgaatagact   240

aattaggatt caaattatca taaagtagtc aattaatata ataaatacac aaatgatctg   300

tgcaattaaa tatnaaaat atgtataaaa attaaaatgt ataaaattgn nattttatgg   360

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ggaaaactaa aaatatgttt ggagaaaata tagaaaattg aatagnctaa aacattttcc     180

taacatagga agaccctaca gcaactcggn atactcaaaa aagtttgttg aaaagttgat     240

aaatattcac agcgcttcac tgttttgttc ttgagtnnag gaaaagtgca tttatttata     300

acttttgaac gggtttattt gattgaaatg aaatattcgg caaattatag aaaattaaat     360

aatctacaaa tttttctttt accggnacag gaaaccaaca aaatnttccc ttcggctaat     420

accnggtaaa catcacaaaa tggtatccga atcaatattt tttntaaaaa ttggaaaatt     480

ngcaaaatgg ataaaatg                                                   498


<210>  734
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<212>  DNA
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<400>  734
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ttgaattgtt atacactcat gtggttccca acccagagc agaatgcact aaaggtgaac     120

aattggttgt cacctttgct gctggttaca ttgccggtgt attctgtgca gtagtttctc     180

atcctgcaga cacagttgtt tccaagctaa atcaagacaa aggagcaaca gccattgacg     240

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tggt                                                                  304


<210>  735
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<211>   464
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caggttcacg agagtcaaat catcaaaggg gtagcgttct ttaaagcgtt tatccaaaga   120

gtcccaagta ttatccaatt cctcatccac aaccaaagga tatgtattct tcgaatccaa   180

actaagttta tcagtgcctt ctacaactac agtgactaca gctttaggta attgaaaagg   240

attcaattta ctcactccgt cccattcagc agaactctgt ccgatgtcaa tcctaaggct   300

acggaataca attccttttaa caaagattgg ggtaaaggag tctcgccttg gaattggact   360

ccatttggag aaattaatac actcagtcgc cgtgcatata tggatgccac aaggggcagt   420

aaataaatag aacctttgcc catttattac ttacggataa aacg   464

<210>   736
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gttaccctga tctgatttgc atcctcgagt aatgacacct ttttcaattt ttgaatagca   120

gtcgtccttt ggattcatac aaactttggt cttcgtcttt cctgcatctt tgaaacattc   180

gtttcttagt tctggaagtt tttgaacgtt acaacccgat ttctcgcaac acatttttc   240

tcggttagtc gagtcgcaac tttctttaac cgt   273

<210>   737
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attaatttc atgncgatgt tttagaaaat gattcagtag caacttctga attttctttg   180

naattgataa tactttctca aagtataatt gcatttcaca acacacgacg gaaatatggn   240

tatggccata tgaagcaatg ctcggtcttc tatccacttg cttctgataa atgnttggna   300

taaagaatgc aatcactcca catgctatca gagatgtcct gatttaaaaa tggtnaatcg   360

caatataatc tagaaatatt tctacacatt ggttccaaca cacttcctaa t   411

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<210>   738
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<213>   Ctenocephalides felis


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aattactnta gttaatgaca ttttgtttgn gcnccttaca taaaatacaa ttttatacat     120

tttaatttt atacatattt tttatattta attgcncaga tcatttgngt atttattata     180

ttaattgact actttatgat aatttgaatc ctaattagtc tattcaagat tgntttcctg     240

gnttaagcct tacttagcaa tctcactttt gcattcttcg ccgggtggcg tgggtatgca     300

tcgcaactcc gtttatcaa agtgcaagcc atttggacaa tcataatggt tatttgccnt     360

ttggtngtaa cccaaaaacn atgggnaant ttttttacaa ntnttcgacg gaaaaaacgt     420

tttccttttg catgccgttt gc                                            442
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<210> 739
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<212> DNA
<213> Ctenocephalides felis

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aaagtcttgg aattaacccc cgatgaacgc cctacctgtt cttcttccgc ttatcaacaa   120

atttcaaatc ccccgaagac accgacaaag ccaaaacaga gctcaccaaa gccatcaaaa   180

ccttgagcga ggcttttgat aaaacctaca aaggcaaagt gctgttcaca gt   232

<210> 740
<211> 396
<212> DNA
<213> Ctenocephalides felis

<400> 740
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acaggattcc ttaaccggat ctgctcctat ttccggacaa tactgcattt cgggtgaact   120

gcacgaattc acgcaactaa attttacttt tttacatttt tgctcgggtt tcggtacagg   180

tgtaggttca ggagtaggta ctactcctgg tgcgggctca tccaatgatg caaatacttc   240

tttatttact gttaaaggcg ttccgtcgac attaaactca ccatcataag cggcaacgac   300

agataacgcc acaaaactaa taaaaaccaa tgtgatataa aacattctaa taaatatgtt   360

acccacactt gggcgggacc caccctaagc cgaatt   396

<210> 741
<211> 331
<212> DNA
<213> Ctenocephalides felis

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ggcataagaa tcattccact ggtccacccg atggactgca tcatggcaat gtgtgctcta   120

tcttcacttc tggatatttc catcgcaatt atcaaagggc tttgaaaaac agatgtagat   180

gttagtgaac caagaaaagc cgctgttata aaaacaataa accaactgga agtaaatgct   240

gtaattagtc ttccggtgac gattgtgatg agacttaagt aaaatactgg tcttcttcca   300

atcctgtctc ctaattgacc aaagataaat g   331

<210> 742
<211> 131
<212> DNA
<213> Ctenocephalides felis

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tgctgccaaa tacgaacgct gctggaattt gtttcaactg gaattagttc ttgagacccc   120

aaagacaatg t   131

<210> 743
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<212> DNA
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atacatttta atttttatac atatttttta tatttaattg cacagatcat ttgtgtattt   180

attatattaa ttgactactt tatgataatt tgaatcctaa ttagtctatt caagattgtt   240

ttcctggttt aagccttact tagcaatctc acttttgcat tcttcgccgg gtggcgtggg   300

tatgcatcgc aactccgttt tatcaaagtg caagccattt ggacaatcat aatgntttat   360

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<210> 744
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aagaangcaa tcactcccat gctatcaaga gatgntcctg atattaaaaa tgntaaatcc   180

gcaattataa tctagaaata ttcctacaac attgctttca acaacacttc ctaatcgacc   240

catcattaaa ganatacata ctggcattgc ctgagtgggg aaggg   285

<210> 745
<211> 456
<212> DNA
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nggggggata aggnggctat attatgtcgg gtaattcatt ttatatatat agaaactcat   120

gtgcacccaa atncgntctg gcttcatcat aaaatgaaat tcaaaatact gttacaattg   180

gtttggcccg agataaatac tttgtacaca acaaacatct ggataaaatc aacgttatca   240

aaattaacaa caaattaatt aaaatattgg aatgtagttg tcaatcttgg tcctgtgctt   300

ttgagcaacg cactcactta tccaaacaat gttacggcac tcttgttcct tgagtttcaa   360

ataagagtaa aatactccga atggaattgt tgcaagaaag ccaacacatt gagattgaac   420

tnatgtttaa ggattatctt naagtgtttt ncgccg   456

<210>   746
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<212>   DNA
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caaataagag taaaatactc cgaaatggaa ttgttgcaag aaagcaaaca cattgagatg     180

aacctcatgt tcaaagaatt tatcttcaag tgttttgtcg ccggtccatc gccagagcct     240

tcgaataaag cagaatactc agcataatat tcagctacag ctttaacttg tcataatcat     300

cagcacgagc cagagcagct taaccgctgg ggttagttac caccaccggg ggtcaattaa     360

cacgacatcc ttgctnattc agttccaacg agttgatggt atgatatngc acgttgcagt     420

tcaaagctat tttcccattg atcactgngg atccccaagt ccttgcaaa                 469


<210>  747
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ttancaaaaa tgtttataaa atctttgctt cattgattat tgatcttta catttaaaaa   120

aaaaatcagt atttattttg accgttgaga caaaataaac atcgtgagtg aattatttta   180

gaagctataa tatatattaa ctaaatatgt   210

<210> 748
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<212> DNA
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ttacagctca ctactacaaa ttacatattt ttatcaatca tatatatata tatatagttt   120

tgggtttaag atatataaca acaatgtttc tatcgcacat atcattaaat atactttcat   180

atgcgacaag acaagttttg cattaaaaaa atatatgtta ctaatgacaa tatttagaat   240

cacacttgaa gactcctcct cggagcctcc ggggggcgcg agtaaaacaa caatgt   296

<210> 749
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<212> DNA
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<223> n = unknown

<400> 749
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tncataatac tggatttgga ttttactccg taacgatttg cttcagatat ttccagaaaa   120

atgttagttt tcatacattt tatttaattt aatatctncg acttgttatt actaagcgaa   180

attttctctc ttttaaatat agaattcttt atagtattca taataggtga agctttaaag   240

tatttctctc actatccct ttttatacaa cgcattttga gaagtaacgt gaaagcttct   300

ttcgaattgg tgatgttcta tgaatactta tatgtattat aatatgnatt aaatngattt   360

tgcgttcaat agacctcaat cataaatt   388

<210> 750
<211> 302
<212> DNA
<213> Ctenocephalides felis

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<220>
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<222>  (22)..(22)
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<222>  (251)..(251)
<223>  n = unknown

<220>
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<222>  (253)..(253)
<223>  n = unknown

<400>  750
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tggccaagga ggctatgcca ctcttgtcaa tggtgggagt tggctggaaa aatgtaactt     120

tactcctatc ttctcagact ggcaaaggat ttaacttctt agttgaaatt tggggatatt     180

agattagaaa tataatgaaa atgtgaatat agaaaaaaaa ttaaatatac aatagtattt     240

taaatttggg ncncatctat ctatgcatcc ataaataaag gttatataca gaaaaaaaaa     300

aa                                                                    302


<210>  751
<211>  168
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (5)..(5)
<223>  n = unknown

<220>
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<222>  (58)..(58)
<223>  n = unknown

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taccatcctt accatctttc ccaaccttgc caacatcttc cccaacagca gggatttcct     120

tttggccgaa aatctcttga tatgcaaaca aaaactggag ctaaatgt                  168


<210>  752
<211>  418
<212>  DNA
<213>  Ctenocephalides felis
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<220>
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<222> (52)..(53)
<223> n = unknown

<400> 752
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agctgctttt ggcgggggcct ttggtgcctc tggcataccg ttttcttggc tggagacacg   120

tctggaagtc atttccattc cttggttcaa atcaccattt gatttagcag aatgaggagc   180

ttcatcttta tttttcttgg ttgccatcaa atataatggg tttgcccaag agcatgagcc   240

ggaatacagc agacccaatt aacacaaata ttttttgaat ttgctgttgc cttcaaacat   300

aaattcatcg caatgttctg ctgggagatc ttgcttgaat acatcatgtt aatgaacaga   360

atcaaaactg atgggcgcag cagggttcaa atcttgatgt ctgtattatt tgcagagt   418

<210> 753
<211> 307
<212> DNA
<213> Ctenocephalides felis

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<223> n = unknown

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<222> (30)..(30)
<223> n = unknown

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<222> (36)..(36)
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<222> (40)..(40)
<223> n = unknown

<220>
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<222> (69)..(69)
<223> n = unknown

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<223> n = unknown

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<400>  753
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tgacctttnc catnttggca gaaataagat cttgggcagt ctttcggatc tggctggata     120

tctacacccg cccatgtagt ttctgccgct tacagntttc ccaaggtttt gatgagcaca     180

tatcatctac caaaatggng catcggaatt tgagtcttct gcaattgatg gtgtaattgg     240

gggttctttg tccacgcaca acttcaaata gaacaatcgt gacaaaatgt tcccactgnt     300

tattagt                                                               307


<210>  754
<211>  332
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (21)..(21)
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<222>  (172)..(172)
<223>  n = unknown

<220>
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<222>  (174)..(174)
<223>  n = unknown

<220>
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<223>  n = unknown

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<221>  misc_feature
<222>  (290)..(290)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (306)..(306)
<223>  n = unknown

<400>  754
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ttagttattc ttaaacaatc agtnggtttt gataaagctg tatcttaaaa gggacttta    120

tatacaggta attatcttca agaaatcctt tccacaattt tgctcggtgt gntntagttt   180

tgtcaacatc tatgggtgta ttatttttc acatatgtnc aaaattcttt cattaattcc    240

gacgatgggt tttgctcacg tgtgagaatt caagctaatt ctatttttn ctcgagggga    300

tgaatngggc agcttcatac cacagcaaat ta                                 332


<210>  755
<211>  239
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (20)..(20)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (27)..(27)
<223>  n = unknown

<400>  755
cagcaattcc gcaaaccagn gccacanatg gtaaatatga tgctatttgt taaatgttca    60

ataaatgcac aaattattcc acaaatcccg catgagacca tcacgaatac aagaattgga   120

agctttccca cagagttaat aatagcacct attatgggaa atccaatcgc atatccagct   180

tccaacatta aagaatgcat aaatgcctgt tcttccattg tgtctttaca ctcggccgt    239


<210>  756
<211>  420
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (39)..(39)
<223>  n = unknown
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<400> 756

gttttttggg ctagagtgca cagaaaattc tctaccggng agaaagtgta tggaaaaatt   60

agagaattgt aactatgctg ttggatcttg ggaaaacaga tcaagttctc actagttggt   120

attgctggac aggacatcaa gtgaaggaaa tgctacttta actttagcgc ccatatggca   180

gttgatgaga gcttatactt tatctgtgtt gacacgtttg gcaaacactg gaagtccaat   240

aattgaaaga gaaattgttc agtgggtgaa taccaagcta gcaggtgcca ataaaacaac   300

atctttgagt agcttccaag acaaaacaat ttcagatgct aaagttgtaa tagacttaat   360

cgatgccatt aaaccgggaa ctatcaatta tgacttagtt aaatcttgga aatcccaaga   420

<210> 757
<211> 414
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (22)..(22)
<223> n = unknown

<220>
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<400> 757

catttgtagg gtgtccagtg cntccctctc ttggacttta tctccgtcaa tgtggtaaag   60

tagcatttgc ccatacactt ggtcttcgtc tcgacttttt cagggatcgt cccaggcaat   120

tttcatcatt ttcatcgcag gaaacacatt cgtgtttttt agcatcacca ttgcattcat   180

tttggtcaca agttgggcaa cgttctggtt ttttctcgca cattttttc agattttggt   240

tcttgaacag gttgctggtg cagcctaatt tgatggcatc accttgtgca ttcagaatac   300

tcaaacaagt atctttagga ttgagacaaa cttctttggc atcatcttta gcattgcaaa   360

ccctgcgatt tcttgggaaa acatcgattt acaaangtta cctttgcact cctg   414

<210> 758
<211> 278
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (31)..(31)
<223> n = unknown

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<222> (93)..(93)
<223> n = unknown

<400> 758
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tacatcatga gcttaaaagc ctcttttaga acncggccat aataaagata atccaactgc   120

ataccagcaa ttccccccca agcttttagg gaaatcagga tgacaccatt gcacaggcct   180

ttcaggcagc aggtgatgga gaatgatcac tgctccatat caatatctct gtttccaaag   240

cttggcataa ttttcttgat actttcttct ctaattgg   278

<210> 759
<211> 403
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (23)..(23)
<223> n = unknown

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<223> n = unknown

<220>
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<222> (136)..(136)
<223> n = unknown

<400> 759
ttatttaaat atttatcatg ggnttggtgg atccatggat aaggtggccg aaatatgcct   60

ggacgtagga tggtggtgcc aaggantttg ggaccgatgg gaactttttc tttgctggat   120

ttcaaaacca aattgnccaa aattttcttc attttggtga tgggaggccc gagccttggg   180

aaaaatgtat tgtcccagga tcacttttat gggaatgatc acgaaggaac atgtgattac   240

gcacaaaatg tagaatgtta ccaaccagaa taaaacattt ttaatatctg acagcgattt   300

tctgaaacta tattcatact actggtataa taaatttatc ttcattgctc tcctcctata   360

aatttattcc ggtttaataa aatcaattaa aataaaaata aca   403

<210> 760
<211> 201
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (62)..(62)
<223> n = unknown

<220>
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<222> (65)..(65)
<223> n = unknown

<220>
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<222> (96)..(96)
<223> n = unknown

<220>
<221> misc_feature
<222> (139)..(139)
<223> n = unknown

<400> 760
gactgccact ttagttgcca attccgcagc agggttgttt gtggcagggg taatcatttt   60

cngtngcatt ttacacattt caggggatca tttttnttac ataggttact attgcacttt   120

agacaagacc caagatgtnc attttcgcat tcttttctaa tcgaatcact tcaggtaaat   180

cgaccaaaca accttttttt g   201

<210> 761
<211> 418
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (21)..(21)
<223> n = unknown

<220>
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<222> (33)..(33)
<223> n = unknown

<220>
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<223> n = unknown

<220>
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<222>  (367)..(367)
<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<222>  (391)..(391)
<223>  n = unknown

<400>  761
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ataaacataa aattggttcc taatgatttg ctctacagaa aatttcatca aaatatttca     120

tatacaatat tatgtaaaat taaaatatgt aagttaatac aatttagaat gatatcagta     180

tgacaaattg tggaaatatt cctttcaaaa gtaaaaacaa naattcggaa atagggaaaa     240

ataaaagaaa tatttcagaa taatttgcct tatacttatg aattttaaaa gaatattctc     300

ctacaaaata ccttaacaat accaaattca taacacttga atataaaaaa tctatcttgg     360

aataaanggg taggnattta aacaatcccc nttttttcat attccccagc ggactggc      418


<210>  762
<211>  204
<212>  DNA
<213>  Ctenocephalides felis

<400>  762
cagttaatga tctacaactt gttcaaaaag ccttaactga tggatcgaac gcgtgtggaa      60

ggtcaatcga atccttccta aatgttattg aaactgaaga agcacctcca acctttaata     120

gaactaacaa attcactcaa ggtttccaaa acttgataga tgcctacgga gttgctagtt     180

acagagaagt aaatccagct ctgt                                           204


<210>  763
<211>  446
<212>  DNA
<213>  Ctenocephalides felis

<220>
<221>  misc_feature
<222>  (390)..(390)
<223>  n = unknown

<400>  763
taatgtcgta gaaaggtgaa aaactgcgag ttgtttgcac agttgtaggc aaacctacac      60
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caacagtgtc atggaaagtt attaatgaga cttatgacga atcatccgat cgaatcaaat   120

tgttagatca tgacaatata ccaaattctg ctttggaaat tgatttggct gaaaaaagcg   180

atcgaggaga atatacatgt attgctacta atcaaggcat tggaattact gttaattcta   240

caaccttggt tcgagttcaa gataaattag ctgctttgtg gccatttttg ggtatctgtg   300

ctgaagtaat aattttatgc gcgattattc tcatttatga aaagaaacgc aacaaagctg   360

aaatggagga gagtgataca gatcaaagtn cagatcgaaa aaatactcct gtcacatgaa   420

ggcactgtgt gaggcatagg aagtaa                                        446
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<210>  764
<211>  341
<212>  DNA
<213>  Ctenocephalides felis

<400>  764
tgacggtggc aatcagcttc tgaacgattt ctttttacac atatttttag aatgatcata    60

tacataggtt agggtggggc attcgaaaac ctgcctttac catctttgca gaataagtat   120

cttgtgcagc tttcggatct ggctgatatc ctacaaccgc gcatgtagtt tctgccgtct   180

tacagttttc cccaggtttt gatgagcaca tatcatctac acaaaatgga gcatcggaat   240

ttgagtctct gcaattgatt ggtgtaattg gggtttcttg tccagcgcac aacttcaaag   300

tagaacaatc gtgacaaaaa tgttcccaac tgcttattag t                       341
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<210>  765
<211>  405
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (19)..(19)
<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<222>  (354)..(354)
<223>  n = unknown
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<400> 765
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aactttatgc gttatatana taaaatatta tggttggaac ccaggctcgc gngntatgat      60

atggcatttà tgaaatttta caatttagat tttttaaat ccatgaatat attttgttct      120

aatcaaaatt attcatttta cgcttaattt tattggttga actaatagat agatagataa      180

agatatagag ttaatataaa aatgaagaaa ataaaattaa aagtaagaaa taatacggac     240

ttctaaatgt agggggaagt cccctagtgg cggacaccta aagttatttta taaataaatc    300

aaaaaatatt ttaaaaacca gcaatcaaat taattcatgt caatggtctc attnctggct     360

tgtgaacagt cttcgctaag aagtcagcaa attcttgata tggag                     405
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<210> 766
<211> 168
<212> DNA
<213> Ctenocephalides felis

<400> 766
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cctgcatacc agtcagactg tttaggtgca agtgtcactt cttccccatc cataccatcc     60

ttaccatcct taccatcttt cccaaccttg ccaacatctt ccccaacagc aggacttccc     120

tttggccgaa aatctcttga tatgcaaaca aaaactggaa ctaaatgt                  168
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<210> 767
<211> 425
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (8)..(8)
<223> n = unknown

<220>
<221> misc_feature
<222> (23)..(23)
<223> n = unknown

<220>
<221> misc_feature
<222> (377)..(377)
<223> n = unknown

<400> 767
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atgatcatat acatagtagg tggcattcga aacctgacct ttaccatctt tgcagaataa     120

gtatcttgtg cagtctttcg gatctggctg atatcctaca cccgcgcatg tagtttctgc     180

cgcttacagt tttccccagg ttttgatgag cacatatcat ctacacaaaa tggagcatcg     240
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gaatttgagt ctctgcaatt gattgtgtaa ttggggtttc ttgtccagcg cacaacttca    300

aagtagaaca atcgtgacaa aatgttccca actgctatta gtcctcggcc gcgaccacgc    360

tagccgaatt tgaaatntca tacactggcg gccgtcgaca tgcattagag ggccaatcgc    420

ctata                                                                425
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<210> 768
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (49)..(49)
<223> n = unknown

<220>
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<222> (410)..(410)
<223> n = unknown

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<400> 768
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catgctcatg ttcaagctat gaccaggtgg agggatgttc aattatgtcg aattgagagt    120

tacattgcgc actccttaca cctagtgagt tcagaactgt tatattctca gctcctgatt    180

ttgtgaaaag catatattct tctaaaggtt tcatagtatg attgttgact tcaatatata    240

tatttgagag gcatcctgaa tagcttttga atgtagcaaa tctgggatca tctgtcgata    300

aaccaccgat ttgtatttca ttgattcctt ccttaggaga ttttacaaaa ttgacttcgg    360

gtaatatttc taaagatact tcagttctgc tattaacaat atggagctgn tgtgatacct    420

tttgtaatag acggatgcct agcaccgttt agaagtttct gctactttgg tccaacacag    480

ccctctctat cttcttca                                                  498
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<210> 769
<211> 350
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (8)..(8)
<223> n = unknown

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<222>  (10)..(10)
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<220>
<221>  misc_feature
<222>  (325)..(325)
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<400>  769
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gattataatt gcgatttaac atttttaata tcaggaacat ctctgatagc atgtggagtg     120

attgcattct ttatccgaac atttatcaga agcaagtgga tagaagaacg agcattgctt     180

catatggcca taaccatatt tccgtcgtgt gttgtgaaat gcaattatac tttgagaaag     240

tattatcaat tacaaagaaa attcagaagt tgctactgaa tcattttcta aaacatcgac     300

atgaaaatta ataactcttt attgntatta gattcgatgt aagatatatg                350


<210>  770
<211>  405
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (352)..(352)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (391)..(391)
<223>  n = unknown

<400>  770
aatgggtttg acccaaaatc tttctcgtgc ggaactgcat gcaaaagtga aaacgttttt      60

tccgatcgaa gagattgtaa aaaatattat caatgtttct tggttaacaa caaatggcaa     120

ataaaacatt atgattgtcc aaatggcttg cactttgata aaacggagtt gcgatgcata     180

cccacgccac ccggcgaaga atgcaaaagt gagattgcta agtaaggctt aaaccaggaa     240

aacaatcttg aatagactaa ttaggattca aattatcata aagtagtcaa ttaatataat     300

aaatacacaa atgatctgtg caattaaata taaaaaatat gtataaaaat tnaaatgtta     360

aaattgattt tatgtaagga gcacaacaaa ngtcattaac tatag                    405


<210>  771
<211>  292
<212>  DNA
<213>  Ctenocephalides felis
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<220>
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<222> (38)..(38)
<223> n = unknown

<220>
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<222> (91)..(91)
<223> n = unknown

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<223> n = unknown

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<222> (216)..(216)
<223> n = unknown

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<222> (263)..(263)
<223> n = unknown

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<222> (277)..(277)
<223> n = unknown

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tgcagaataa agtatcttgt gcagtctttc ngatctgggc tgatatccta caaccgcgca   120

tgtagtttct gncgcttaca gtttccccag ttttgatgag cacatatcat ctacacaaaa   180

tggagcatcg gaatttgagt ctctgcaatt gattgntgtt aattggggtt cttgtccagc   240

gcacaactca aagtagaaca atngtgacaa aatgttncca ctgcttatta at   292

<210> 772
<211> 498
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (5)..(5)
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<400> 772
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gtgcaaaagt gaaaacgttt tttccgatcg aagagattgt aaaaaatatt atcaatgttt   120

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cttggttaac aacaaatggc aaataaaaca ttatgattgt ccaaatggct tgcactttga    180

taaaacggag ttgcgatgca tacccacgcc acccggcgaa gaatgcaaaa gtgagattgc    240

taagtaaggc ttaaaccagg aaaacaatct tgaatagact aattaggatt caaattatca    300

taaagtagtc aattaatata ataaatacac aaatgatctg tgcaattaaa tataaaaaat    360

atgtataaaa attaaaatgt ataaaattgt attttatgta agagcacaac aaaatgtcat    420

tactattggt aatttctggt tatttaaata tataaatttg gagcttttg aattcatgtt    480

cttttttaata aaataaat                                                 498
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<210>    773
<211>    459
<212>    DNA
<213>    Ctenocephalides felis


<220>
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tgtccaaatg gcttgcactt tgataaaacg gagttgcgat gcatacccac gccacccggc    180

gaagaatgca aaagtgagat tgctaagtaa ggcttaaacc aggaaaacaa tcttgaatag    240

actaattagg attcaaatta tcataaagta gtcaattaat ataataaata cacaaatgat    300

ctgtgcaatt aaatataaaa aatatgtata aaaattaaaa tgtataaaat tgttttttatg    360

taagggcaca aacaaaatgt cttactatag taattctgat attttaaata ttaatataga    420

agcttttga atcaanaaaa aaaaaaaaaa aaaaaaaa                             459
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atttcttttt acacatattt ttagaatgat catatacata gttaggtggg cattcgaaac     180

ctgacctttta ccatctttgc agaataagta tcttgtgcag tctttcggat ctggctgata     240

tcctacaacc gcgcatgtag tttctgccgt cttacagttt tccccaggtt ttgatgagca     300

catatcatct acacaaaatg gagcatcgga atttgagtct ctgcaattga tggtgtaatt     360

ggggtttctt gtcagcgcac aacttcaaag tagaacaatc gtgacaaaat gttccactgg     420

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acaatataat gttactattg ttagttggca tactgtaccg agttttattt tttttatgaa      180

aaagaagata gagtggccaa attattttgg tcatgtgata tttgttccat taaagattat      240

atgaggtcat gtgcattgtt agtgcatgat ttaatatttt tgtacgttgc ggaattgatt      300

tgtggtggag atactgtatt aaaggtttca aatagttttg aaactgctct tgtgtgaaat      360

tagtaatagc tccaattcaa tctaggatgc ttggtcttcc tttatgtnca gcacttgtat      420

actttatcta cttatcaatt attttagacc angctcgccc ttggccagaa tatttgaccg      480

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ggtcatgcag caatactggc gtgttattca tgggagaaaa accaaaagcc ggcagtccaa      180

tttctcttat atatctgcta tctgttgcag ctggaaaaac ttgtggtcaa gaacaagtcc      240

catttcatca gtagctcttt taaatgctgc caaattttat tgcttcattc agttcagtgt      300

tgctatcagt ggtcttttttg gtcaaatcta tttcaacatc cttgncagct ctttgcccat      360

ttcgnatctt tcttccaatc ctgnggctaa gga                                  393
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ctgcatgcaa nagtgaaaac gttttttccc gntcgaagag attgtaaaaa atattatcaa   120

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tgtttcttgg ttaacaacaa atggcaaata aaacattatg attgtccaaa tggcttgcac      180

tttgataaaa cggagttgcg atgcataccc acgccacccg gcgaagaatg caaaagtgag      240

attgctaagt aaggcttaaa ccaggaaaac aatcttgaat agactaatta ggattcaaat      300

tatcataaag tngtcaatta atataataaa tacacaaatg atctgtgcaa ttaaatataa      360

aaaatatgtn taaaaattaa aatgtttaaa attgtattta tgtaaggagc acaaacaaaa      420

tgncattaac tatagtaatt ctgattattc aaatatntna atatagaagc tttttgaanca     480

cacataaaaa aanaaaaa                                                    498
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ccctacagca actcgggtat actcaaaaaa gtttgttgaa aagttngata aatattcaca      180

gcgcttcact gntttgttct tgagtttagg aaaaggcatt tatttataac ttttggaccg      240

gtttatttga ttgaaatgaa atattcggcn aatttataga aaattaaata atctacaaat      300

ttttcttttc cgcaccagaa accaccaaaa tattccttcg gcttatacgg gtaaacatca      360

caa                                                                    363
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cattttgctt tatgcaacgc cgccagacat cacctccaga catgctttca ttaggaaatc    180

aagtatttgg natctttata tgtgtgnata atctgcatat aaatgggctg cacaactagc    240

cataacatgc ttctcattgt aaacgtgctg ctgtgtgctg ctgaacaata tcaactttct    300

ggagacattt tagagcaaat gtcttgtctg ggtggtggat gactgacagt tcacgcgacc    360

aatccgccac gcccaagtcc ttggcgngac ccnctaaccg atttgagatn tctcacactg    420

gcggcgtc                                                            428


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tatttaaaaa atntagtcat attttgangg ttacaggaac atgtcccctt cagtatttct     180

tttattttca attacgaaaa tcagaaaaca gttnttccaa gatcatggnt cttgttccct     240

tctttaagct tatttcctat cctaaagngn taactattac tcctaaactg cgatgatatt     300

tgtgatgaat gatgttgaca tgatgtccga a                                    331
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gattaaataa aggcttcaac attttcactt agtgaaaatt tgagggtagg gtttgatttt     120

agtgatgntt aaaatgatgt aaaataatac tgccttttat tataagaact tcttatatta     180

tataaacagg tatgatcttg gttttgacaa aagtttgtaa tattggtttt gggtatattg     240

agcaaaatcc ctgntggctc cacaagcaag a                                    271


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ttaataactc gttacattgn aataatacta aacaatctat ttacaattaa aaacactcct     180

ttcgcaaact ttaattctcc ttcttgatgc gtgtggatgt cattctgtaa ataatggagt     240

ccctgccagg gtccattgng gagatcgaga tcagatagca agtaacgaga agaaaaaggc     300

tctcccaacc ataaaatgat gttaaaaacc accgggtagg agtcgttgta ttctttacta     360

ggtgaaatcg ggttcttttg gagcatcatc tgcttgcctt gcttacgtgt taagacgtca     420

ttaganggta g                                                         431


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tccgcaatta tgacgtaacg gatcatatgc aaaatttgng gggcaataat attgggttcc     120
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tatactattt tcgtcacaat aataatagct ttgacaatca tttatatttg gataaaatct    180

cgatggtgac ggacatttga aaccttgt                                       208
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<210>  784
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ttccaccagt gggatcgaga aataatcgca caattagctg tgttcgtgcc ctggaccaat    120

atgtaaatgg ccaaggaggc tatgccactc ttgtcaatgg tggagttggc tggaaaaatg    180

taactttact cctatcttct cagactggca aaggatttaa cttcttagtt gaaatttggg    240

gatattagat tagaaatata atgaaaatgt gaatatagaa aaaaaattaa atatacaata    300

gtattttaaa tttggcacac atctatctat gcatccataa ataaaggnta tatacagcat    360

tcaaaaaaaa aaaaaaaaaa aaaaaaaa                                       388
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<210>  785
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atgcaaaagt gaaaacgttt tttccgatcg aagagattgt aaaaaatatt atcaatgttt     120

cttggttaac aacaaatggc aaataaaaca ttatgattgt ccaaatggct tgcactttga     180

taaaacggag ttgcgatgca tacccacgcc acccggcgaa gaatgcaaaa gtgagattgc     240

taagtaaggc ttaaaccagg aaaacaatct tgaatagact aattaggatt caaattatca     300

taaagtagtc aattaatata ataaatacac aaatgatctg tgcaattaaa tataaaaaat     360

atgtattaaa atttaaatgt ataaaattga ttttatgtaa gngcacaaac caaatggcat     420

tactatagga attctgatat ttaaatntnt aaatatagga gctttttgaa tttaaantna     480

aaaaaaaaaa aaaaaaaa                                                    498
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tttgagtccc aaaaatatat aagtatttta taaaccgatg aaaaactgaa cagtccattg   180

cacaaacaac tatttagctt gatcattaag ttgatacatg taaaaattgn cactcgcata   240

caaagatttt taaatgntaa tttaaggtta catttatttg gttatataat tctgnatttg   300

agggnaataa gaacgtagat tattgagtca aatcaaatct attcttgaca tgccaatggc   360

tagtgatcta tttaaaacta tattcgagca tttgattaaa ttttcatcta cgtggtgggt   420

atgttaagaa tgtttttg   438

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accatancaa aaaaagagaa aaatctaaaa acaatttaaa ttagcaaaac caagngtatt     120

tgaatttnat ttttgcacaa gttccttttt gnattaaaat atatgtatat ttatgaatat     180

gtatttcttg gattttaggg taaantcntt atanaataat ttggaaatac atattnataa     240

tgctaaagtt taaattggct ttttttccatt aaaatccttt ttaacattat acatatattt    300

tattgcaaat gtgaggcggt atggaatcac cgggtggntg ntttctgagt               350


<210>  788
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tatcccaaag aactaagtna atcagacagg gcctgaatta tcaagtgcta agactattgt     180

atcaggagga cgtggtttaa agtctggtga taatttcaaa ttattatttg acttagcgga     240

taagatagga gctgcagtag gcgcttctag agccgcggta gatgctggat tttgccaaat     300

gatatgcaaa tcggcagaca gggaagattg ttgcacctga ctctatattg ctgtggaata     360

tctggagcaa ttcaacactt actggaatga aaagatctaa actattgtgc atcaataaga     420

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agtaaattcc tttttggaat ttcgaatggg gtgnccatta cggnaaacaa agtntcctcg   180

tcaacagttg catgaacttt gccttcaacg tcattcctaa gtatggggnt tctttattct   240

tgggttggat tatgtcttta gtgaccttaa attcctcctc aggatcccaa ataactaaat   300

caagcatcca agccttcttt gatttgncct tttatgccat cagnccagtt aattttngcag   360

gcccgcagat aataaacgag atcatcatga gctttaaagc ccctttttaga agcncggcca   420

taataagata atccaaattg catccaccaa ttcccccat gctttaggaa taaggatgaa   480

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<212> DNA
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cataaagctt ctatatttat atattttaaa taatcagaaa ttactatagt taatgacatt     120

ttgtttgtgc tccttacata aaatacaatt ttatacattt taatttttat acatattttt     180

tatatttaat tgcacagatc atttgngtat ttattatatt aattgactac tttatgataa     240

tttgaatcct aattagtcta ttcaagattg ttttcctggn ttaagcctta cttagcaatc     300

tcacttttgc attcttcgcc gggtggcgtg ggtatgcatc gcaactccgt tttatcaaag     360

tgcaagccat ttggacaatc ataatggttt atttgccatt ggtggtaacc aagaaacatt     420

gataatattt ttacaatctc ttcgatcgga aaaacggttt cacttttnat gcagtctgcc     480

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attctagaat ataantgcga tttaacattt ttaatatcag gaacaatctc tganagcatg   180

nggaggggat tggattcttt atacccgaac atttatcaga agcaagngga tagaagaacg   240

agcattgctt catatggacc ataaccatat ttccgncgng ngntgggaaa tacaattata   300

ctttgagaaa gnattatcaa ttacaaagaa aattcagaag ntgctactga atcattttct   360

aaaacatcga catgaaaatt aataactctt tattgg   396

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ctaaacaatc tatttacaat taaaaacact cctttcgcaa actttaattc tccttcttga   180

tgcgtgtgga tgtcattctg taaataatgg agtccctgcc agggtccatt gtggagatcg   240

agatacagat agcaagtaac gagaagaaaa aggctactcc gaaccataaa atgatgttaa   300

aaaccaccgg gtaggagtcg ntgtattctt tactaggttg aaatcgggtt cttttggagc   360

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gacatgtctg aatttgattt taccatcaac taaagattcc atgtgagctc ttgcgcaagt   180

tccatctcgt tcaaaatgat tttggtatct atattgntcg t   221

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tgtattatat tccctattat ataatacaat ttattataaa attaactatc taatatatcc     180

cgtgtaatta attattttaa taacgatttt tttacttttt ataatatata tgtattatat     240

tccctattat ataatacaat ttattataaa attaactatc taatatatcc cgtgtaatta     300

attattttaa taacgatttt ttactttttt ataatatata tgtattatat tgcaaaaatg     360

taaaaaagta aaatttagtt gcgtgaattc gtgcagttca cccgaaatgc agtattgccg     420

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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ctgcactttg     180

ataaaacgga gttgcgatgc atacccacgc cacccggcga gaatgcaaa agtgagattg      240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc     300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa     360

tatgtataaa aattaaaatg nataaaattg nattttatgt aaggngcacc aaccaaatg      419


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actttgntaa aacggagntg cgatgcatac cccccccccg gcgaagaatg caaaagtgag     180

attgntaagt aaggnttaag ccaggaaaac aatcttgaat agactaatta ggattcaaat     240

tatcataaag nagtcnatta atatnataaa tcccnaatga tctgngcnat tnaatattaa     300

aaatatgttt aaaattaaaa tgggntaaaa tgnatttatg gtangggccc aaccaaangc     360

tttacctttg taattctgnt tntttaaata tataaattta gaactttttg aaattgg       417
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aatacaatca agatataaca gtgccacaat attattaaaa tacgtatttg tgacgaaacc   180

taaagtgtag tcagaatata aaaaacaata atatttatac cttcaaatgt atgctttgaa   240

aaaaagcatt cgaagatttt gtttaaatat tttgttaagt ccacatttat gtttgntcgt   300

caattnaatt atgtttcttt tgcaagtaag attatgtg   338

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tttcttggtt aacaacaaat ggcaaataaa acattatgat tgccaaatgg cttgcacttt      180

gataaaacgg agttgcgatg catacccacg cccccggcga agaatgcaaa agtgagattg      240

ctaagtaagg nttaaaccag gaaaacaatc ttgaatagac tnattaggat tcaaattatc      300

ataaagtagt caattnatat natnaatacn cnaatgatct gtgcaattaa atntaaaaat      360

atgtttaaaa ttaaaatgtn taaattgttt ttatgttagg ngcncaacca aatggcatta      420

ctttanaatt tctgntattt aaaattntta atatngagct tttgaaggga aaaaaaaaaa      480

aaaaaaaaaa aaaaaaga                                                    498
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taaaatgtaa tgaatttatc tgcaaatagt caaaatcaaa attactatat aatgattatt      180

gaaataatgc ttttatagat tgcatttcaa tctgtattaa attgtatgta aatcacagca      240

caagatctaa cacacaattc atntaacaga aagaacaaaa taattttaat gttattaaaa      300

attacatata aaataacttt tacaataaag taaccttaca tgagatgtgt tgatttcaga      360

tcttttcata caacagtgct ttctgtataa acaatataat ataaataacg g              411
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tcttggttaa caacaaatgg caaataaaac attatgattg ccaaatggc ttgcactttg       180

ataaaacgga gttgcgatgc atacccacgc acccggcga agaatgcaaa agtgagattg       240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300
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ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgt   420

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gcatgcaaaa gtgaaaacgt tttttccgat cgaagagatt gtaaaaaata ttatcaatgt   120

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ttcttggtta acaacaaatg gcaaataaaa cattatgatt gtccaaatgg cttgcacttt    180

gataaaacgg agttgcgatg catacccacg ccacccggcg aagaatgcaa aagtgagatt    240

gctaagtaag gcttaaacca ggaaaacaat cttgaataga ctaattagga ttcaaattat    300

cataaagtag tcaattaata taataaatac acaaatgatc tgtgcaatta aatataaaaa    360

atatgtataa aaattaaaat gnataaaatt gnattttatg naaggagcac aaacaaaatg    420
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gaatacacct tgagcgttta atgtgcactc gtagt                               95
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aggtccgcaa ttatgacgta acggatcata tgcaaaattt gcggggcaat aatattgggt    120

tcctatacta ttttcgtcac aataataata gctttgacaa tcatttatat ttggataaaa    180

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cagtggcttt cgccaaggat ttcgccgcag gtggtatttc tgccgcagtc tctaagactg   180

nggtagcacc catcgaacgt gtcaaattgc tcctgcaagt caacacattt ccaaacaaat   240

tgctgaggat aaacgttaca aaggtatcat cgattgcttt gtcgtatccc taaggagcag   300

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gnaattttttc ggncaaatat tcaacatcag caacgatatc ctcatcatct gacgtctttg     180

ttccaggatg gataattgnt tcaatacctt gctttgccca ttgcaatgca atgctccttg     240

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catgcaaaag gg                                                         132



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caatagcaac ctctgcctga aaattaaccg aacaaacttc taacatcctt attaatgnat     180

agattttgaa taataacata gaaattatac tattttttttg atgactctaa taaaaaaaat    240

gtataaatgg ccatgcctga tatattttttg ataaccttaa tgaaaaaatg tttaaatggc    300

catgtctgaa aagatttcta tgngnatttt tttggtaaca tttattgntg aatggntaaa     360

aagataaata ccatttttata agctgnttgg atnaattatt ttggataaat ccatatcata    420
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gaattggtna gtggcaaatt aaaatatggc cncaaccnca aaagntttcg aaatataact   480

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cattaaaatt attttgttct ttctgttaga tgaattgtgt gttagatctt gtgctgtgat   180

ttacatacaa tttaatacag attgaaatgc aatctataaa agcattattt caataatcat   240

tatatagtaa ttttgatttt gactatttgc agataaattc attacatttt aaaatgttta   300

ctttattaag ctatacaaac cttgaacttt acactttgta tttctagaac ataagtatta   360

aataaattgt taaaaatatt tgnggctag attttcctat tgctaattgn gtgg   414

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tgccaaattt aaaatactat tgnatattta attttttttc tatattcaca ttttcattat   120

atttctaatc taatatcccc aaatttcaac taagaagtta aatcctttgc cagtctgaga   180

agataggagt aaagttacat ttttccagcc aactccacca ttgacaagag tggcatagcc   240

tccttggcca tttacatatt ggtccagggc acgaacacag ctaattgtgc gattatttct   300

cgatcccact ggtggaaatg acacctntnt agtagctttc ctgaaaaagt tccactnttg   360

ggattggact tgacgg   376

<210>   811
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<212>   DNA
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ctaaaaatat gtttggagaa aatatagaaa attgaatagt ctaaaacatt ttcctaacat   120

aggaagaccc tacagcaact cggtatactc aaaaaagttt gttgaaaagt tgataaatat   180

tcacagcgct tcactgtttt gttcttgagt ttaggaaaag tgcatttatt tataactttt   240

gaacggntta tttgattgaa atgaaatatt cggcnaattt atagaaaatt aaataatcta   300

caaatttttc ttttacccgc aacagaaacc aacaaaatat tcctttcgct tatccnggta   360

accatcacaa aatgnatcga atcaatattt tttaaaattg gaaatttgca aatgataaat   420

ggaattg   427

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ataatcagaa attactatag ttaatgacat tttgtttgng ctccttacat aaaatacaat   120

tttatacatt ttaatttta tacatattt ttatatttaa ttgcacagat catttgggna   180

tttattatat taattgacta ctttatgata atttgaatcc taattagtct attcaagatt   240

gntttcctgg nttaagcctt acttagcaat ctcactttg cattcttcgc cgggtggcgn   300

gggtatgcat cgcaactccg ttttatcaaa gngcaagcca tttggacaat ccaatgnttt   360

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atttgccatt tggtggtaac caagaaacat gataatattt tttacaatct ctttcgatcg    420

ggaaaaacgg tttcactttt ggctgcagtc tgccga                             456
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gatggnaaag gncaggnttt cgaatgcccc ctaactatgt atatgatcat tctaaaaata    180

tgtgtaaaaa gaaatcgcag aagctgattg cccgcatgaa atgccaaatc caattttta    240
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tacctatgcc cggnccatca atttatgctt tggtgcaatg acaaattgna accattcgtt   300

gacgncggct ttacatttaa t   321

<210> 814
<211> 388
<212> DNA
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 aacctgcctt taccatcttt gcagaataag tatcttgngc agnctttcgg atctggctga      120

tatcctacaa ccgcgcatgt agtttctgnc gncttacagt tttccccagg ttttgatgag      180

cacatatcat ctacacaaaa tggagcatcg gaatttgagt ctctgcaatt gattgntgna      240

attggggntt cttgtcagcg cacaacttca aagtagaaca atcgtgcaaa atgtcccact      300

gnttattagt accttggccg ggaccccta agccgaatta aggcgcaagg ctgttaagga      360

agcggacacg tagaaagcca gtccgcag                                       388
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ggagttcaat cgaatccttc ctaaatggta atggaaactg aagaaacacc tccaaccttt      120

aatagaacta acaaattcac tcaaggnttc caaaacttga tagatgccta cggagttgct      180

agttacagag aaagtaaatc cagctntgt                                       209
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ttgactactt tatgataatc ttgaatccta attaggctat tcaagattgt tttccngggn   180

taagccttac ttagcaatct cacttttgca ttcttcgccg ggtggcgtgg gtatgcatcg   240

caactccgnt ttatcaaagt gcaaagcc   268

<210> 817
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agaaaatgat tcagtagcaa cttctgaatt ttctttgtaa ttgataatac tttctcaaag   120

tataattgca tttcacaaca cacgacggaa atatggttat ggtccatatg aagcaatgct   180

cgttcttcta tccacttgct tctgataaat gttcggtata aagaatgcaa tcactccaca   240

tgctatcaga gatgttcctg atattaaaaa tgttaaatcg caattataat ctagaattat   300

tcctacaaca ttgcttccaa caacactttc taatcgaccc atcattaaag atatacatac   360

tgncattgcc tgagttgtgt agggt   385

<210> 818
<211> 321
<212> DNA
<213> Ctenocephalides felis

<400> 818
aaaaggattc agtagcaact tctgaaattt tctttgtaat tgataatact ttctcaaagt   60

ataattgcat ttcacaacac acgacggaaa tatggttatg ccatatgaa gcaatgctcg   120

ttcttctatc cacttgcttc tgataaatgt tcggtataaa gaatgcaatc actccacatg   180

ctatcagaga tgttcctgat attaaaaatg ttaaatcgca attataatct agaattattc   240

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ctacaacatt gcttccaaca acacttctaa tcgacccatc attaaagata tacatactgc      300

cattgcctga gttgtgtagg g                                               321
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<210>   819
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<212>   DNA
<213>   Ctenocephalides felis

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atataaatat gatgctattg ttaaatgttc aataaatgca caaattattc cacaaatccc      120

gcatgagacc atcacgaata caagaattgg aagctttccc acagagttaa taatagcacc      180

tattatggga aatccaatcg catatccagc ttccaacatt aaagaatgca taaatgcctg      240

ttcttccatt gtgtctttac actcggtcgt                                       270
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<210>   820
<211>   348
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tggatacttc ttattctttg ggacctctaa agntctttcc agtagttcat ccatagcttc      120

tatcaagcta gtccgataat tttcattgnt ctcatgagat ccaaacagtc tgctttctca      180

ttccattaac aagtccgatc aaactcctca gaatcgtggg ctcaaaactg ccagtatttc      240

aggagggcat ttgagtaaga ggcaatgtca tcaccgccaa attttacgca caaacgcaat      300
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catctgtgct atcatcaaac tcttgttcag gaattatatc ggttacat              348
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aattttcatc attttcatcg caggaaacac attcgtgttt tttagcatca ccattgcatt   120

cattttggtc acaagttggg caacgttctg gntttttctc gcacatttt ttcagatttt    180

ggttcttgaa caggntgctg gtgcacctaa tttgatggca tcaccttgtg cattcagaat   240

actcaaacaa gtatctttag gattgagaca aacttctttg gcatcatctt tagcattgca   300

aaccctgcga attcttggga aaacatcgat ttaccaaagg taccttgc               348
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<210>   822
<211>   413
<212>   DNA
<213>   Ctenocephalides felis

<400>   822
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tatataacct ttatttatgg atgcatagat agatgtgtgc caaatttaaa atactattgt   120

atatttaatt ttttttctat attcacattt tcattatatt tctaatctaa tatccccaaa   180

tttcaactaa gaagttaaat cctttgccag tctgagaaga taggagtaaa gttacatttt   240

tccagccaac tccaccattg acaagagtgg catagcctcc ttggccattt acatattggt   300

ccagggcacg aacacagcta attgtgcgat tatttctcga tcccactggt ggaaatgaca   360

cctctctagt agctttcctg aaaaagtttc cactcttgga ttggacttga cgg          413
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tggcgattaa cattttaaa tatcagggaa ccatctctga tagcatggtg gaggtggatt     120

gcattctttt atccggaaca tttatcagaa agcaagtggg atagaaagaa cgagcatttg     180

cttcatatgg ccataaccat atttccgcgt gtgttgtgaa aatgcaatta tctttgagaa     240

agtattatca attacaaaga aaattcagaa gtgctctgaa tcattttcta aaacatcgac     300

atgaaaatta ataactcttt attggtatta gattcgatgn aagatatatg t             351


<210>  824
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acgggtatcc gcccggctcc cgaattcgca acgcatcgcc tttctatcgc cttctttgac     120

gaagttcttt cttgaattgg aaaaaaggaa gagtatgaag tattcaacat ttcccgggtc     180

gccctttatt cccttttttg cgggcatttt tgccttcctt gtttttgctc acccagaaac     240

gctggtgaaa gtaaaagatg ctgaagatca agttgggtgc acgagtgggt tacatcgaac     300

tggatctcaa cagcggtaaa gatcctttga gagtttcgcc ccgaagaacg ttttccaatg     360

atgagca                                                              367


<210>  825
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accgcacaag gtttggaatc tttgacattg ggctgggaaa ttgttggcgt atctttcccc     120

aagggagatg ttggaagaga aatacccgct tcaccctcgg cgagttttac ccacgtgatt     180

ctcgcattaa aaatcttact aaagtttcca tcaataccat attttatttc cctttatatg     240

ntggcttctc catgtaaaga atattaaatc aagttttttg agatgtctgg t             291


<210>  826
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gttggaaccc actggtggat ggggngattg aaatgccngg agtgcaaagg taacctttgt   120

aatgtcgatg ttttcccaga aatcgcaggg tttgcaacgc tnaagatgat gccaaggaag   180

tttgtctcaa gccacaagat acttgtttga gtattttaaa tgcacaaggt gatgccataa   240

aattagggtg caccagcaac ctgttcaaga accagaatct gaaaaaaatg tgcgagaaaa   300

aaccagaacg ttgccaactt gtgacaaaaa cgaatgcaat ggtgatgcca aaaaacacga   360

atgtgtttct tgtgatgaaa atgatgaaaa ttgcttgacg acccttgaaa aagtcgagac   420

gaagacccaa tgcatgggcc aatgctcntt aatnttgacg gagataaagt gaaaagag    478


<210>  827
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


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gaacggggtt agaaatcatt tcactgggcc cccccgatgg gctggcattc atgggcaatg       120

nggtgctcta tcttcacttc tgggatattt ccatcgcaat tatcaaaggg ctttgaaaaa       180

cagatgtaga tgttagtgaa ccaagaaaag ccgctgttat aaaaacaata aaccaactgg       240

gaagtaaatg ctgnaattag tcttccggga cgattgtgat gagacttaag taaaatactg       300

gncttcttcc aatcctatct cctaattgcc aaaaataaat gtgcctatga cttcgcccgc       360

acgtccaata gcaaatgnat tagttacata gaggtctcta tcacaaaccc agcttgatct       420

tgacggagcc gtgataaana ccatgtctgn catattataa ccatgctgcc aaggnattat       480

tggcttcaat cttattggct                                                  500


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gggggcattc gaaaacctgg nctttaccat ctttggagaa taaggatctt gngcagtctt   180

tcggatctgg ctgatatcct acaaccgngc atgtaggttc tgncgnctta cagntttccc   240

aggttttggt gagcacatat catctacaca aaatggagca tcggaatttg agtctntgca   300

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ctcttaatgg agaatgcaat tagaggtgnt aagagaaaaa tccctcagga aaaccagaaa   180

aaggttaccg ggatcatgag tttattttct agnttaccgg ttagctagaa atctcactta   240

ttgggctttg ctggattgga tggtcccggg cgtattttac attaattttg aacgngagcc   300

atatgggagg gtaatcattt ctcaactttt tatatcaatc ggcagtagaa ttaccagcat   360

atctactagg gccgttcttc agcgacagaa taaggaagac gttggnctct gnagcttctt   420

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ctcgactttt ttcaggggtc ggtcaagggc aaattttcat caattttcat cacaagaaac   180

acaatccgtg gttttttggc atcacccatt gcattcgntt tttgtcacaa gttgggcacg   240

gtctggnttt tctcgcacat tttttcagat cttggtcttg acagggtgct ggtgcaccta   300

atttatggca tcaccttgtg cattaaaata ctcaaacaag atcttgnggn ttgagacaac   360

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ttttcggtaa gctccanaac acctgatccc tgccgaatac gtgagcttca gttagcgttt      180

ccgggaactt ttggtgtaaa gnttccggca agaacattcc ggaagtcgcg cccaccatca      240

tcattacgga aagt                                                       254
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tttatcacta ccttatctat aatcatatca cctcacataa atttcatacc atggntgtat   180

ttacaaaatt cagacagtag ttgacagaga tgtattcgaa atttgaatca ttaaacaaaa   240

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aggntaactt gaaaaaggat tttgtgtatt tgaagagtgc tggtttgggg tatataacag     120

attcccgaag ggatgatgtc ttttaataaa cagccaaatg aattttcaca atggatttta     180

caaaaatgtt gaattttgtg aaaaaagtgg tattaaaact gtatggagcc ggagaagtgc     240

aaagaagttt tgaaggagag aattgagaaa atattttttt tcctctaata tgatttaaat     300

aataaattta tttatgataa taaatctaaa attagcatat gacatatcgt atgaaacttt     360

gaattagtaa ttaacgacat ttggtatgtt tgngtatttt aataaaattt tatattccgt     420

aaaaaaaaaa                                                             430


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cctatgcctc acatcagtgt ccttcatgtg atcaggagta ttttttcgat ctggactttg     180
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cgcgcataaa attattactt cagcacagat acccaaaaat ggccacaaag cagctaattt    300

atcttgaact cgaaccaagg ntgnagaatt aacagtaatt ccaatgcctt gattagtagc    360

aatacatgta tattctcctc gacgcttttt cagccaaaca atttccaaag cagaattngn    420

atatggcatg actaacaatt tgatcga                                        447
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ataaagtaaa acaaagt                                                  137
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taacattaaa attattttgt tctttctgtt agatgaattg tgtgttagat cttgtgctgt   180

gatttacata caatttaata cagattgaaa tgcaatntat aaaagcatta tttcaataat   240

cattatatan taattttgat tttgactatt tgcagataaa ttcattacat tntaaaatgt   300

ttactttatt aagctataca aaccttgaac tttacacttt gtattttcta gaacatangt   360

attaaataaa ttgttaaaaa tatntggggg ntagattttn ctattgntaa ttggcgt   417

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tgttcatcat tacgtctgag ttgtccacta aattcaactt tttttccatt ttcttccatg   120

acatgtctga attttatttt accatcaact aaagattcca tgtgagctct tgcgcaagtt   180

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aaaagntgga taaaaaaaag gggaaaatca ttgctaatga tgcaactcat aattattaag   180

gaaattggct ataacaacta ctacattatc agatctatcc gnccttctta atattcaata   240

atattatggn tatcaggccc cttatcactt tatagatttt taattaatct atttaatatt   300

aaataaaaaa taaatttaaa accattaaac cgatacattg nctttaaatg aaataaatca   360

ccataacctt tattaagctt gggtgnaata tgcaatagca atttcatata cacactcact   420

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gacatgtctg aatttttattt taccatcaac taaagattcc atgtgagctc ttgcgcaagt   180

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gagttgcgat gcatacccac gccacccggc gaagaatgca aaagtgagat tgctaagtaa     120

ggcttaaacc aggaaaacaa tcttgaatag actaattagg attcaaatta tcataaagta     180

gtcaattaat ataataaatc acaaatgatc tgtgcaatta aatataaaaa atatgtataa     240

aaattaaaat gtataaaatt gtattttatg tnaggagcac aaacnaaatg ncattactat     300

aggaattctg attntttaaa aatataaata tagaactttn tgaaattcat gttctttttt     359


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ttgntctaat caaaattatt cattttacgc ttaattttat tggttgaact aatagataga     180

tagataaaga tatagagtta atataaaaat gaagaaaata aaattaaaag taagaaataa     240
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ataaatcaaa aaatatttt                                                  319
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cgggtgcaaa tcagcttctg gaccgaattt cttttttaca catattttt agaatggaat   180

catattacca taagttaggg tggggcattc gaaaacctga cctttaccat ctttgcagaa   240

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ctgccgcctt acaagttttc cccaggtttt gatgaagcac atatcatcta cacaaaatgg   360

gagcatcgga atttgagtct ctgcaattga ttgttgtaat tggggnttct tgtccagccg   420

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tacaatagca acctctgcct gaaaattaac cgaacaaact tctaacatcc ttattaatgt   180

atagattttg aataataaca tagaaattat actatttttt tgatgactct aataaaaaaa   240

atgtataaat ggccatgcct gatatatttt tgataacctt aatgaaaaaa tgtttaaatg   300

gccatgtctg aaaagatttc tatgtgtatt tttttgntaa catttttattg ntgaatggat   360

aaaagataaa tacaatttta taagctggtt ggataaatta attttgaata atccttatca   420

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ttaattttta tacatatttt ttatatttaa ttgcacagaa catttgngna tttattatat   180

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taattgacta ctttatgata atttgaatcc taattagtct attcaagant gntttcctgg    240

nttaagcctt acttagcaat ctcacttttg cattcttcgc cgggtggngn gggtatgcat    300

cgcaactccg tttatcaaag tgcaagccat ttggacaatc ataatgnttt atttgccatt    360

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<223> n = unknown

<400> 847

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gattacttct actctggtgc attaactttt attcaactag attaaatttt tggtttactt    120

cctatgcctc acatcagtgt ccttcatgtg atcaggagta ttttttcgat ctggactttg    180

atctgtatca ctctcctcca tttcagcttt gttgcgtttc ttttcataaa tgagaataat    240

cgcgcataaa attattactt cagcacagat acccaaaaat ggccacaaag cagctaattt    300

atcttgaact cgaaccaagg ntgnagaatt aacagtaatt cccatgcctt gattagtagc    360

aatacatgta tattctcctc gacgcttttt cagccaaaca attccaaagc anaattggga    420

tatggcatga tctaccaatt ggattcgatc ggat                               454
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<210> 848
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (13)..(13)

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<222>  (98)..(98)
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<222>  (157)..(157)
<223>  n = unknown

<220>
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<222>  (476)..(476)
<223>  n = unknown

<220>
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<223>  n = unknown

<400>  848
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aatttaaaaa tcaaaacata tttataaatt tttttggnct tatttctaga atttattcag     120

cattagaaac attttgaata attttcttga atattgngat acctcgaagg aaagtttctg     180

tatctaaata ttcatcatgg tcatgcagca atactggcgt gttattcatg ggagaaaaac     240

caaaagccgg cagtccaatt tctcttatat atctgctatc tgttgcagct ggaaaaactt     300

gtggttcaag aacaagtccc atttcatcag tagctctttt aaatgctgcc aaattttatt     360

gctttcattc agttcagggt tgctatcagt gggtcttttt ggtcaaatct attcacatcc     420

ttgccagctt ctttgaccat ttcgatcttt cttccaattc cttggggact aaggangggg     480

naaacgttat caaaaactgc                                                 500


<210>  849
<211>  293
<212>  DNA
<213>  Ctenocephalides felis

<400>  849
aaattataag atacccggaa acatttaaat aaacgatata tgaatattta atacatcata      60

aaaaagaatt tattaaatta aaagaaaatg gcgatctact caatttatct aaaatagttt     120

ttaggtgtaa gaagattaga actaattcta tttgtttact acttttgtta ctcgtattta     180

attttgattt aaattatgta tgttatttta gaaagcactg ataagtataa ggaattgttg     240

aactgtattt tataagactg ctaggcaaat cacgtttatt tataaaaaaa tgt           293
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<210> 850
<211> 320
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (27)..(27)
<223> n = unknown

<400> 850
ttaggtaact tttttttaag gccgtcntgt gctggaattc ggcttagcgt ggtcgcggcc   60

cgaggacttt gttttacttt atgtgttata taaaaaaata ttatggttga acacaggctc   120

gcaaatatga taaggcattt aagaatttta caatttagat ttttttaaat ccatgaatat   180

atttgttcta atcaaaatta ttcattttac gcttaatttt attggttgaa ctaatagata   240

gatagataaa gatatagagt taatataaaa atgaagaaaa taaaattaaa aaaaaaaaaa   300

aaaaaaaaaa aaaaaaaaaa   320

<210> 851
<211> 141
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (73)..(73)
<223> n = unknown

<400> 851
tccttttttgc attgtaggat caatgggatc gcgaaatagt ccaacttttt ggacaaaatg   60

aatgggttgc tgncaaaata cgaacgcttg ctggaatttg tttcaactgg gaattagttc   120

ttgagactcc aaagacaatg t   141

<210> 852
<211> 423
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (45)..(45)
<223> n = unknown

<220>
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<222> (49)..(49)
<223> n = unknown

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<223>  n = unknown

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<222>  (150)..(150)
<223>  n = unknown

<220>
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<222>  (239)..(239)
<223>  n = unknown

<400>  852
ttttttttttt tttttttttt tttttagaa taaataaagc atttnttgnt ttttttccag     60

cataaataaa atttcttaac ttaatagcgc aagaagcata ttgtataaaa aaagcttttg    120

ttaaaggnct tattttatt ttcatattgn gccctaataa gatttatact taaaacaata    180

aaaaatgcgt tttattaaaa gttgcaagca gttaaataaa atgttgaata aataatagng    240

ataaatcatt gcataatgat gcaactcata attattaagt aaattggcta taacaactac    300

tacattatca gatctatccg tcacttctta atattcaata atattatgga tatcaggcct    360

cttatcactt tatagatttt taattaatct atttaatatt aaataaaaaa taaattttaa    420

acc                                                                 423


<210>  853
<211>  500
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (49)..(49)
<223>  n = unknown

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<222>  (86)..(86)
<223>  n = unknown

<220>
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<222>  (200)..(200)
<223>  n = unknown

<220>
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<222>  (222)..(222)
<223>  n = unknown
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<223>  n = unknown

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<222>  (336)..(336)
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<222>  (367)..(367)
<223>  n = unknown

<220>
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<222>  (374)..(374)
<223>  n = unknown

<220>
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<222>  (478)..(478)
<223>  n = unknown

<220>
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<222>  (490)..(490)
<223>  n = unknown

<400>  853
cctatgccag gggaatataa aaattcttgg taaaggcatt tttggtggnc aaaaccttaa      60

aaaatcattt taaaacctta tattgnttcc aaatttaaaa atattaagct gatattcaaa     120

gaagttggaa ttgaaagcta acaagtttat ttttctgtga tcatttggat tcaagttata     180

ttatttctat ttgtgattgn ctataaaaac aatgaatatt gnttcattgn tccctgctaa     240

gtcattaata tttcactgta gttattaatt taagtttgat tgacatccgt tgattttttc     300

cacaagaagt taagtctttc tttttttttat tagtgnttaa ataatacctt ttcgtgaaga     360

gaagggntga ttgnatattt catttgacta agaacctagc tggtatgctt ccaagaaagc     420

ccaacttacc aataaccttg gaaaattatg aagaggattt tttaagccag ccttaagnga     480

tggaagaagn gaaaattaat                                                 500


<210>  854
<211>  495
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
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<222>  (22)..(22)
<223>  n = unknown

<220>
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<222>  (431)..(431)
<223>  n = unknown

<220>
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<222>  (448)..(448)
<223>  n = unknown

<220>
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<222>  (450)..(450)
<223>  n = unknown

<400>  854
tttttttttt ttttttttat gngtatataa tttatttaaa aataacaaag gtcaaaaata      60

agttttatgt acaaaaaatc ttctaatcag aaagtcatta attcgttacg tgtgagatta     120

aaattttgaa taaatttcgt agttgttgaa tctattgggc attttgtttg atccagtcca     180

cataagcaga gaccctggtg taaactgatg ggtatccaac accaccgcaa ggaatgtagc     240

cccaggacac aacacccaaa agtgtagcct cgcttccgtt atattgtaca agtgggccac     300

ctgaatctcc agagcaagcg ctaactccac cagtcaaggg tccagtgcac aagtttgttg     360

ggtgcaatgg agtagatcct gctcctccta gagccttttc acattcgggg tatggtccaa     420

tgggttttca nccaatcttg ccttcaanan aaccattggc acaaatctta tgctggaggc     480

gtaaatcctt atgac                                                      495


<210>  855
<211>  480
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (420)..(420)
<223>  n = unknown

<220>
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<222>  (445)..(445)
<223>  n = unknown

<400>  855
tgaaatgtga agacgacgtc aacgaatggt ttgacccaaa atctttctcg tgcagaactg      60

catgcaaaag tgaaaacgtt ttttccgatc gaagagattg taaaaaatat tatcaatgtt     120
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg      180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg      240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgn      420

cattaactat aggtaattct gattntttaa aatatataaa tatagaagct ttatgaaatt      480
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<210>  856
<211>  313
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (42)..(42)
<223>  n = unknown

<400>  856
ccgggcgaaa tcaagtgggt agacgaagca caatggtgtg gnttccagca gcaccaccag       60

atgccaagtt tcctgcgaag taacgccaga attgggtctt cttgtcaagg tatcatcatc      120

taccgtgcag catactttgg attctatgac accgctcgtg gaatgttgcc agaccccaag      180

aacaccccat tagttatcag ctgggccatt gcacaagccg tcacaactgt tgctggtatt      240

gtgtcatatc cattcgacac tgtccgtagg cgtatgatga tgcagtctgg acgtgcaaag      300

tctgaaatgt tgt                                                          313
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<210>  857
<211>  415
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<223>  n = unknown

<220>
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<222>  (98)..(98)
<223>  n = unknown

<220>
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<222>  (156)..(156)
<223>  n = unknown
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<220>
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<222>  (256)..(256)
<223>  n = unknown

<220>
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<222>  (391)..(391)
<223>  n = unknown

<220>
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<222>  (403)..(403)
<223>  n = unknown

<400>  857
cnaaaaaata aagctttatt ggttttttcag cataaataaa ggttcttact taatagcgca      60

agaagcatat tgtataaaaa aagctttttgt ataaaggnct tatttttatt ttcatattgg     120

gccctaataa gatttatact taaaacaata aaaaangcgt tttattaaaa gttgcaagcn     180

gttaaataaa atgttgaata aataatagggg ataaatcatt gcataatgat gcactcataa     240

ttattaagta aattgnctat aacaactact acattatcag atctatccgc acttcttaat     300

attcaataat attatggata tcaggcctct tatcctttat agattttttaa ttaatctatt     360

taatattaaa taaaaaataa atttaaaacc ntttaaccgg tcnttggcct ttaaa          415


<210>  858
<211>  145
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (104)..(104)
<223>  n = unknown

<400>  858
cttcttggtg ctatntactt tctttgcagg tgcctctgaa cgggcgttta tttaaatcat      60

cgctttcttg attattatcc tcacgctttc ctgattggta tcgnctttat gcgtcaaagt     120

tgccaagatc gttgcattat ttggt                                           145
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```
<210>  859
<211>  174
<212>  DNA
<213>  Ctenocephalides felis

<400>  859
ctttctttag tggtgcactg tagatatcca ctttgatcag cgcacacttg atctgggcta      60

caggattcct taaccggatc tgctcctatt tccggacaat actgcatttc gggtgaactg     120

cacgaattca cgcaactaaa ttttactttt ttacattttt gctcgggttt cggt          174


<210>  860
<211>  213
<212>  DNA
<213>  Ctenocephalides felis

<400>  860
aaggtttcaa atgtcccgtc acccgtccga gattttatcc aaatataaat gattgtcaaa      60

gctattatta ttgtgacgaa aatagtatag gaacccaata ttattgcccc gcaaattttg     120

catatgatcc gttacgtcat aattgcggac ctatggctct gggcacaaaa tgctatacag     180

ttacatgtcc tgcacagcct aaggtgcttc cgt                                  213


<210>  861
<211>  399
<212>  DNA
<213>  Ctenocephalides felis

<400>  861
tttttgggcg ggccaacgat tattttatta aaaagaaaca tgtaattgca taaagcttct      60

atatttatat attttaaata atcagaaatt actatagtta atgacatttt gtttgtgctc     120

cttacataaa atacaatttt atacatttta atttttatac atatttttta tatttaattg     180

cacagatcat ttgtgtattt attatattaa ttgactactt tatgataatt tgaatcctaa     240

ttagtctatt caagattgtt ttcctggttt aagccttact tagcaatctc acttttgcat     300

tcttcgccgg gtggcgtggg tatgcatcgc aactccgttt tatcaaagtg caagccattt     360

ggacaatcat aatgtttatt tgccatttgg tggtaccaa                            399


<210>  862
<211>  258
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (21)..(21)
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<223>   n = unknown

<400>   862
aggcatttaa gaattttaca ntctagattt tttttaaatc catgaatata tttgttctaa   60

tcaaaattat tcattttacg cttaatttta ttgggttgaa ctaatagata gatagataaa   120

gatatagagt taatataaaa atgaagaaaa taaaattaaa agtaagaaat aatacggact   180

tctaaatgta gggggaagtc ccctagtggc ggacacctaa agttatttat aaataaatca   240

aaaaatattt taaaaaac   258

<210>   863
<211>   445
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (216)..(216)
<223>   n = unknown

<400>   863
taccactttt tcaggaacac acaacctaaa ttaaaaaagt tgggaagaga tgtatcaatc   60

aattaaaagt ttaatatcaa acgataatat gatgcaaagt ggcgataatc cttatataca   120

tgcacaaata aaattcacca ttataaaata atatagtgct attttttttac aattctaaaa   180

ataataaaat agtttcttat ataaaaaacg atcggntgca atttgtcatt gcaccaagca   240

taaattgatg ggtccggtgc ataggttata aaagaattgg gatttgtgca tttcatgacg   300

gtgcaatcag cttctgacga tttcttttta cacatatttt tagaatgatc atatacatag   360

ttaggtgggc attcgaaaac ctgcctttac catctttgca gaataagtat cttgtgcagc   420

tttcggatct ggctgatatc ctaca   445

<210>   864
<211>   485
<212>   DNA
<213>   Ctenocephalides felis

<220>
<221>   misc_feature
<222>   (92)..(92)
<223>   n = unknown

<400>   864
gttatatgaa attgctattg catattacat acaagcttaa taaaggttat ggtgatttat   60

ttcatttaaa ggcaatgtat cggtttaatg gntttaaatt tattttttat ttaatattaa   120

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atagattaat taaaaatcta taaagtgata agaggcctga tatccataat attattgaat    180

attaagaagt gacggataga tctgataatg tagtagttgt tatagacaat ttacttaata    240

attatgagtt gcatcattat gcaatgattt atcactatta tttattcaac attttatttta   300

actgcttgca acttttaata aaacgcattt tttattgttt taagtataaa tcttattagg    360

gcacaatatg aaaataaaaa taagaacttt atacaaaagc tttttttata caatatgctt    420

cttgcgcttt taagttaaga aaattttatt tatgcttgta aaaaaacaat aaagctttat    480

ttatc                                                                485
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<210>    865
<211>    500
<212>    DNA
<213>    Ctenocephalides felis


<220>
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<223>    n = unknown

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<223>    n = unknown

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<223>    n = unknown

<220>
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<223>    n = unknown

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<222>    (442)..(442)
<223>    n = unknown

<220>
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<222>    (469)..(469)
<223>    n = unknown

<400>    865
ctggaatggt ggaggccacc tcaacgaatg ggttggccca aaatctttct cgtgcngaac    60

tgctgcaaaa ggtgaaaacg ntttttcccg atcgaagaga ttgtaaaaaa tattatcaat   120

gtttcttggn taacaacaaa tggcaaataa aacattatga ttgccaaatg gcttgcactt   180

tgataaaacg gagttgcgat gcatacCccg ccCccggcga agaatgcaaa agtgagattg   240
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ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc      300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa      360

tatgtataaa aattaaaatg tataaaattg tttttatgta aggagcacaa accaaatgnc      420

ataactatag taattctgat tntttaaaaa tataaatata gaagctttnt gaaattcatg      480

ttcttttttaa taaaaataaa                                                  500
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<210>   866
<211>   226
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<222>   (223)..(223)
<223>   n = unknown

<400>   866
tagtgggtgg cactgtagaa tatcccactt ttgatcagcg cacactttga tctggggcta       60

cagggattcc ttaacccggg atctgctcct atttccggac aatactgcat ttcgggtgaa      120

ctgcacgaat tcacgcaact aaattttact tttttacatt tttgctcggg tttcggtaca      180

aaatgctata cagttacatg tcctgcacag cctaaggtgc ttncgt                     226
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<210>   867
<211>   424
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<222>   (6)..(6)
<223>   n = unknown

<220>
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<223>   n = unknown

<220>
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<223>   n = unknown

<220>
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<222>   (56)..(56)
<223>   n = unknown
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<223>  n = unknown

<220>
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<222>  (74)..(74)
<223>  n = unknown

<220>
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<222>  (161)..(161)
<223>  n = unknown

<220>
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<223>  n = unknown

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<223>  n = unknown

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<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<222>  (367)..(367)
<223>  n = unknown

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<222>  (371)..(371)
<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<222>  (412)..(412)
<223>  n = unknown
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<220>
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<222> (421)..(421)
<223> n = unknown

<400> 867
aaaatnttng gtgggntacc gccgactcat aaataattat ttaaacaatg gaatgntaaa   60

aaaaattaaa gntnggaaat ataatatatg tattggatta acttagttaa ttctccctcg   120

caattttata ctatagtaac cagaaacaaa aatcagagtg ngnaaaatgn aaattcatat   180

attttttggta aaaatacaat caagatataa cagtgccaca atattattaa aatacgtatt   240

tgtgacgaaa cctaaagtgn agtcagaata taaaaaacaa taatatttat acctccaaat   300

gtatgctttg aaaaaaagca ttcgaagatt ttgnttaaat attttgntaa gtcccattta   360

tgtttgntcg ntcaattaaa ttatgnttct tttgcaagta agaatatggt gnagatattg   420

nccc   424

<210> 868
<211> 369
<212> DNA
<213> Ctenocephalides felis

<400> 868
tctaataaca ataaagagtt attaattttc atgtcgatgt tttagaaaat gattcagtag   60

caacttctga attttctttg taattgataa tactttctca aagtataatt gcatttcaca   120

acacacgacg gaaatatggt tatggtccat atgaagcaat gctcgttctt ctatccactt   180

gcttctgata aatgttcggt ataaagaatg caatcactcc acatgctatc agagatgttc   240

ctgatattaa aaatgttaaa tcgcaattat aatctagaat tattcctaca acattgcttc   300

caacaacact tcctaatcga cccatcatta aagatataca tactgccatt gccctgagtt   360

gtgtagggt   369

<210> 869
<211> 380
<212> DNA
<213> Ctenocephalides felis

<220> ·
<221> misc_feature
<222> (9)..(9)
<223> n = unknown

<220>
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<222> (51)..(51)

<223>   n = unknown

<220>
<221>   misc_feature
<222>   (61)..(61)
<223>   n = unknown

<220>
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<222>   (63)..(63)
<223>   n = unknown

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<222>   (120)..(120)
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<220>
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<223>   n = unknown

<400>   869
ctgaaatgng gagacgacgt caacgaatgg gttgcccaaa atctttctcg ngcagaactg   60

ngngcaaaag tgaaaacgtt ttttcccgat cgaagagatt ggaaaaaata ttatcaatgn   120

ttcttggnta acaacaaatg gcaaataaaa cattatgatt gccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg   380

<210>   870
<211>   469
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222>   (25)..(25)
<223>   n = unknown

<220>
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<222>   (30)..(30)
<223>   n = unknown

<220>
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<222>   (50)..(50)
<223>   n = unknown

<400> 870

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tgaagccttg gggttgaatc ccttncgggn ccggcgagtc taaaatctgn ggagaagaag      60

tgtcattgcg atcaaaacca acacagccct tgataaataa tgtattttc aacacattca      120

aaattaaaat actatgagaa ccaattcaaa ctgtttaaac aagtttgaca aagttgtgcc      180

gttgataatc ctagttgatg tattgtctat taaaatcctg acacttcaag cattgtttat      240

gaatatattg atcaagaata caaggttttt aagttctctc tggaatattt tttgttcttc      300

cagagatgtt taattgacag ttgcaatcaa ttgggttttt catagacata cattgtaaca      360

gtatgcttgt tttaataaaa tcaatcaaat taataaatat ccatgattaa gatttatatg      420

aattaacatt tttattaagt ttttatttat ataaatttac tggaaactt                469
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<210>    871
<211>    462
<212>    DNA
<213>    Ctenocephalides felis
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<220>
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<222>    (11)..(11)
<223>    n = unknown
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<223>    n = unknown
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<223>    n = unknown
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<222>    (63)..(63)
<223>    n = unknown
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<400> 871

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atacttaagc ncttgngagc tccantcgct tacgtggtcg cggcgcgggg gtacacacaa      60

ttngcaattg gaaaatctag ccacaaattt tttaacaatt tatttaatac ttatgttcta      120

gaaatacaaa gtgtaaagtt caaggtttgt atagcttaat aaagtaaaca ttttaaaatg      180

taatgaattt atctgcaaat agtcaaaatc aaaattacta tataatgatt attgaaataa      240

tgcttttata gattgcattt caatctgtat taaattgtat gtaaatcaca gcacaagatc      300

taacacacaa ttcatctaac agaaagaaca aaataatttt aatgttatta aaaattcata      360

taaaataact tttacaataa agtaacctta catgagatgt gttgatttca gatcttttca      420
```

tacaacagtg ctttctgtat aaacaatata atataaatac gg   462

<210>   872
<211>   389
<212>   DNA
<213>   Ctenocephalides felis

<400>   872
cccaagtttc acagcaggtt tggcagtcac tataatagta tgctcccttt cattttctcc   60

tgaaccaact ttgcatgtgt aagagccagc atcatcttgt tcagtttttt caataatgaa   120

ttgatgttct tcctttatta attggtaacg gtccttgaga tcattgattt cttctacttt   180

tttctcatct ttaaaccact gatcaacagg accatctttc aatggacagg ttagaaccaa   240

tggactgcga atatcaaaaa gtttttgcga cgtggcttca ccttctctgg cataaacact   300

gctttggacc aaaaataata aaattgccta cacaaaaact gcttcatatt tattgaattt   360

tcttccctcg attggaatag ttcataagt   389

<210>   873
<211>   231
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222>   (14)..(14)
<223>   n = unknown

<220>
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<222>   (35)..(35)
<223>   n = unknown

<220>
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<222>   (184)..(184)
<223>   n = unknown

<220>
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<222>   (190)..(191)
<223>   n = unknown

<220>
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<222>   (201)..(201)
<223>   n = unknown

<220>
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<222>   (206)..(208)
<223>   n = unknown

<400> 873
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ttttgtaaca tacagttaag aacacaatag aaaaatcatt taattagttg gatattttta     120

gtataagtat tcctgtgtag atagcaagtt gtgactacag aataaatatc tgattttatc     180

acanggtggn naaaaaaaaa naaaannnaa aaaaaaaaaa aaaaaaaaaa a      .        231
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<210> 874
<211> 431
<212> DNA
<213> Ctenocephalides felis

<400> 874
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gggtagttct tggaaaattt cttgacttcc ctgtgataca tttcctgagc ccgtgaacac      60

gaacgtcaat ggacctacag attttggcat catacctaaa gcgatttcat atccagcatc     120

ccctatggat tgtctggcca tggaggaatt tctgtaattg tgagccaatc caatatgcat     180

gaaaggtgta tgatgaccca aagctaaaag acgtaaacct aatccgtgca aaatattgat     240

cataccggca acaccagcat attttccaaa tgctactact ctttggccct tttcgtccat     300

caactttca taatcgataa gacgaatatt cttttccata attgcatcaa gtaaaggcat     360

attagattct tgggctttga taacatgtga aaacatgcag tagggtttat tgggaattaa     420

ttgtctacag g                                                          431
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<210> 875
<211> 432
<212> DNA
<213> Ctenocephalides felis

<220>
<221> misc_feature
<222> (68)..(68)
<223> n = unknown

<220>
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<222> (192)..(192)
<223> n = unknown

<400> 875
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aatactgnat aattatttca tttttttatcg tttttttatta ttgaaatgcc cacaacaagt    120

atacattcaa aatcaaacta tatggtatta gtagtatata aataattatt tacttctact    180

aattaatatt gncgaattca tattctattt ccatccctat ccctttttta taaatcgtgt    240
```

```
ttcaataatt tacctcaaaa tgagatctaa aatatgaaga aatgatatac aatttcatct    300

atacttatat tttaaaagtg cacaattaat aataaaaaga ttattttact ctcgttcttg    360

agaattgaga tttggctttg gcaatacacg tacaatattc tgacctttca tagctttaa     420

tataagtaaa ag                                                        432
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```
<210>   876
<211>   418
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (30)..(30)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (259)..(259)
<223>   n = unknown

<220>
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<222>   (328)..(328)
<223>   n = unknown

<220>
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<222>   (331)..(331)
<223>   n = unknown

<220>
<221>   misc_feature
<222>   (353)..(353)
<223>   n = unknown

<400>   876
gaaaacgttt tttccgatcg aagagattgn aaaaaatatt atcaatgttt cttggttaac     60

aacaaatggc aaataaaaca ttatgattgc caaatggctt gcactttgat aaaacggagt    120

tgcgatgcat acccacgccc ccggcgaaga atgcaaaagt gagattgcta agtaaggctt    180

aaaccaggaa aacaatcttg aatagactaa ttaggattca aattatcata aagtagtcaa    240

ttaatataat aaatacacna atgatctgtg caattaaata taaaaaatat gtataaaatt    300

aaaatgtata aattgttttt atgtaagngc ncaaccaaat gcattactat agnatttctg    360

gtttttttaaa tatttaattt tgagcctttt gaatcaaaaa aaaaaaaaaa aaaaaaa      418
```

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<210>   877
<211>   283
<212>   DNA
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<213> Ctenocephalides felis

<400> 877
aagcaaactg aatttgatct gaggtaaaac tgaattcaag acataaaagc atcaccaagt   60

atgtatagat aaaagataaa gattgtaaaa agtttgagaa acactgtttg gatggtgaaa   120

caaaatatag aaaacacaaa agttaaaaaa tatatatact cagccccaaa taatataatt   180

taaagttatg gttaagtttg tttagtagct cagtggtaat agcattagcc ttgcaaccag   240

aattgcagat tccattccct cattaaacct gatatcaagc agt   283

<210>   878
<211>   369
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222> (55)..(55)
<223> n = unknown

<400>   878
tttttttact cggatctata caataagagt ttatttctgc gagtttagaa atggntcagt   60

agcaacttct gaattttctt tgtaatcgat aatactttct caaagtataa ttgcatttca   120

caacacacga cggaaatatg gttatggcca tatgaagcaa tgctcgttct tctatccact   180

tgcttctgat aaatgttcgg tataaagaat gcaatcactc cacatgctat cagagatgtt   240

cctgatatta aaaatgttaa atcgcaatta taatctagaa ttattcctac aacattgctt   300

tcaacaacac ttcctaatcg acccatcatt aaagatatac atactgccat tgcctgagtt   360

gtgtagggt   369

<210>   879
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<212>   DNA
<213>   Ctenocephalides felis

<220>
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<222> (469)..(469)
<223> n = unknown

<400>   879
taagggtttc aatttacctc actgcaagtg ttggatttaa gcgagtgcca gttttctctt   60

atagatgctg atatgttcag aggaattgga tctcttagca gtttgaatct cagtagtaat   120

ggaatagtag aaatctatcc aagagctttc gataatttga ttgacttgag atttattgac   180

```
ttgacacata atctacttac tttcttacct gacaacgtct tccaaaataa tgatcatttg     240

gatgttatta aaatttctaa caacccgaat ctcatgaatt tgcctagatt tcattcaaat     300

ttgtcatcgt ttaccactta tatgtttgaa gcagtaaatt gcggattact tagcttagac     360

aaacatacat ttgctgaaat gccttccatg gctcaactga atttagctca gaactcgatc     420

aaagatttaa aatataatat tttctggcat atgcgccaat taatcagcnt aaatttgggg     480

taatataaaa tcaccaacct                                                 500
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<210>   880
<211>   440
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<222>   (37)..(37)
<223>   n = unknown

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<223>   n = unknown

<220>
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<222>   (221)..(221)
<223>   n = unknown

<400>   880
cctttttgcca tttaaactct ttggtccatt ccgttgntaa aaatacttaa gacatttcta      60

tttctttcgg gataaaattat atagnggtac aaaatgggaa acaaatcttc acttctacta     120

agagaggaag aaattgcaag aattcaagat gaaactggct tcactccaaa tcaaattgag     180

cgtttgtctc aagattcaca tctctagatc gtggagactg nggaactctt tcacgagatg     240

attttttgag aatacccgaa ctcgcaataa atccttaggt gataggattg ccatgcattt     300

tttgctcaaa gtcatgatga cagggtgaat ttcttacagt ttatgcaagt cttagcacat     360

ttcagaccca ttaagaagaa tcgggaaaat aaattgacag cagggaagaa aaattgagaa     420

ttgcttcaaa tgtatgcttg                                                 440
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<210>   881
<211>   286
<212>   DNA
<213>   Ctenocephalides felis


<220>
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<221>  misc_feature
<222>  (43)..(43)
<223>  n = unknown

<400>  881
aattagctgg gttcgtgccc tgggccaatt gtaaatggcc aangggggcta tgccactctt      60

gtcaatggtg gagttggctg gaaaaaagta actttactcc tatcttctca gactggcaaa     120

ggatttaact tcttaattga aatttgggga tattagatta gaaatataat gaaaatgtga     180

atatagaaaa aaaattaaat atacaatagt attttaaatt tggcacacat ctatctatgc     240

atccataaat aaagggtata tacagcattc atttaaaaaa aaaaaa                     286


<210>  882
<211>  420
<212>  DNA
<213>  Ctenocephalides felis


<220>
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<222>  (10)..(10)
<223>  n = unknown

<220>
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<222>  (71)..(71)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (343)..(343)
<223>  n = unknown

<400>  882
taaaattggn tgggtcccgg gtggcattaa ggttattaaa aagaaatggg gaattttggt      60

gccattttca ntgaacgggt gcaaatcagc tttcttggac gaatttcttt ttacacatat     120

tttttagaat ggatcatata ccataagtta gggtgggcat tcgaaaaacc tgacctttac     180

catctttgca gaataagtat cttgtgcagt ctttcggatc tggctgatat cctacaaccg     240

cgcatgtagt ttctgccgct tacagttttc cccaggtttt gatgagcaca tatcatctac     300

acaaaatggg agcatcggaa tttgagtctc tgcaattgat tgntgtaatt gggggtttct     360

tgccagcgca caacttcaaa gtagaacaat cgtgacaaaa tgttccaact gcttattagt     420


<210>  883
<211>  382
<212>  DNA
<213>  Ctenocephalides felis

<400>  883
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cacaactcag ggcaatggca gtatgtatat ctttaatgat gggtcgatta ggaagtgttg    60

ttggaagcaa tgttgtagga ataattctag attataattg cgatttaaca tttttaatat   120

caggaacatc tctgatagca tgtggagtga ttgcattctt tataccgaac atttatcaga   180

agcaagtgga tagaagaacg agcattgctt catatggacc ataaccatat ttccgtcgtg   240

tgttgtgaaa tgcaattata ctttgagaaa gtattatcaa ttacaaagaa aattcagaag   300

ttgctactga atcattttct aaaacatcga catgaaaatt aataactctt tattgttatt   360

agattcgatg taagatatat gt                                            382
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<210>   884
<211>   363
<212>   DNA
<213>   Ctenocephalides felis


<220>
<221>   misc_feature
<222>   (40)..(40)
<223>   n = unknown

<220>
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<222>   (54)..(54)
<223>   n = unknown

<220>
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<222>   (57)..(57)
<223>   n = unknown

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<222>   (357)..(357)
<223>   n = unknown

<400>   884
cggatggata tctttaatga tggggcgatt aggaagtggn ggtggaagca atgntgnagg    60

aataattcta gattataatt gcgatttaac attttttaata tcaggaacat ctctgatagc   120

atgtggagtg attgcattct ttatacccga acatttatca gaagcaagtg gatagaagaa   180

cgagcattgc ttcatatgga ccataaccat atttccgtcg tggttgtgaa atgcaattat   240

actttgagaa agtattatca attacaaaga aaattcagaa gttgctactg aatcattttc   300

taaaacatcg acatgaaaat taataactct ttattgntat tagattcgat gtaaganata   360
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<210>   885
<211>   349
<212>   DNA
<213>   Ctenocephalides felis

<400>   885
tttagtggtg cactgtagat atccactttg atcagcgcac acttgatctg ggctacagga   60

ttccttaacc ggatctgctc ctatttccgg acaatactgc atttcgggtg aactgcacga   120

attcacgcaa ctaaatttta cttttttaca tttttgctcg ggtttcggta caggtgtagg   180

ttcaggagta ggtactactc ctggtgcggg ctcatccaat gatgcaaata cttctttatt   240

tactgttaaa ggcgttccgt cgacattaaa ctcaccatca taagcggtaa cgacagataa   300

cgccacaaaa ctaataaaaa ccaatgtgat ataaaacatt ctaataaat   349

<210>   886
<211>   371
<212>   DNA
<213>   Ctenocephalides felis

<220>
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<223>   n = unknown

<220>
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<223>   n = unknown

<220>
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<222>   (44)..(44)
<223>   n = unknown

<220>
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<222>   (73)..(73)
<223>   n = unknown

<220>
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<222>   (149)..(149)
<223>   n = unknown

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<220>
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<222>  (189)..(189)
<223>  n = unknown

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<222>  (210)..(210)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (249)..(249)
<223>  n = unknown

<400>  886
actcaagggc atggcggntg gtntttcttt atggaggggc cganttagga ggggtggtgg      60

gagccaaggt ggngggaaaa atctagaata ttattggcga attaacaatt ttaatatcaa     120

ggaaccatct ctgatagcat ggtgggagng gatggcttct tttttnccga catttatcaa     180

aaagcnagng ggtagaaaaa cgagcattgn ttcatatgga ccataaccat atttcccgtc     240

gtgtggtgng aaatgcaatt atactttgag aaaggattat caattaccaa gaaaattcag     300

aaggtgctac tggatcattt ctaaaacatc gaatgaaaaa taataactct ttattggtat     360

tagattcgat g                                                         371


<210>  887
<211>  360
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
<222>  (53)..(53)
<223>  n = unknown

<220>
<221>  misc_feature
<222>  (349)..(349)
<223>  n = unknown

<400>  887
gccccagagc ccttagggcc cgcaattatt gacggtaacc gggatcatat gcnaaaattg      60

cggggcaata atattgggtt cctatactat tttcgtcaca ataataatag ctttgacaat     120

catttatatt tggataaaat ctcgatgggt gacggacatt tgaaaccttg tactttgcag     180

actgtctttc tttagtggtg cactgtagat atccactttg atcagcgcac acttgatctg     240
```

```
ggctacagga ttccttaacc ggatctgctc tatttccgga caatactgca tttcgggtga    300

actgcacgaa ttcacgcaac taaattttac tttttacat  ttttgctcng gtttcggaca    360
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<210>  888
<211>  241
<212>  DNA
<213>  Ctenocephalides felis
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<400>  888
gggcgccgac ttcccggaat ggtctttgcc gggaaacttt tcacccaaga agttaccgga     60

aacgcctaac tgaagctcac gtattcggca gggatcaggt gttctggagc ttacccgaaa    120

aaaggtgtat caaagtctac agatacggcc cgtcaagaaa ttatcacaag aagactgtta    180

aatagttata atttgtattg ttatacatat gtttcttata taataaaatt atatttattg    240

t                                                                    241
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```
<210>  889
<211>  328
<212>  DNA
<213>  Ctenocephalides felis
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<220>
<221>  misc_feature
<222>  (40)..(40)
<223>  n = unknown
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```
<220>
<221>  misc_feature
<222>  (57)..(57)
<223>  n = unknown
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<220>
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<222>  (71)..(71)
<223>  n = unknown
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<220>
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<222>  (267)..(267)
<223>  n = unknown
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atccctttga tcagcgcaca cttgatctgg gctacagggn tccttaaccg gatctgntcc     60

tatttcccga naatactgga tttcgggtga actgcacgaa ttcacgcaac taaattttac    120

ttttttacat ttttgctcgg gtttcggtac aggtgtaggt tcaggagtag gtactactcc    180

tggtgcgggc tcatccaatg atgcaaatac ttctttattt actgttaaag gcgttccgtc    240

gacattaaac tcaccatcat aagcggnaac gacagataac gccacaaaac taataaaaac    300
```

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caatgtgata taaaacattc taataaat                                              328
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<210>    890
<211>    496
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (209)..(209)
<223>    n = unknown

<220>
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<222>    (211)..(211)
<223>    n = unknown

<220>
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<222>    (455)..(455)
<223>    n = unknown

<220>
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<222>    (488)..(488)
<223>    n = unknown

<400>    890
tttttttttt tttttttta gcggcccaaa cgatttattt ttattaaaaa gagcatgtaa      60

tttcataaag cttctatatt tatatatttt aaataatcag aaattactat agttaatgac     120

attttgtttg tgctccttac ataaaataca attttataca ttttaatttt tatacatatt     180

ttttatattt aattgcacag atcatttgng natttattat attaattgac tactttatga     240

taatttgaat cctaattagt ctattcaaga ttgttttcct ggtttaagcc ttacttagca     300

atctcacttt tgcattcttc gccgggtggc gtgggtatgc atcgcaactc cgttttatca     360

aagtgcaagc catttggaca atcataatgt tttatttgcc atttgttggt aaccaagaaa     420

cattgataat attttttaca atctcttcga tcggnaaaaa cgtttcactt tttcatgcag     480

ttttcccnaa aaaaat                                                     496
```

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<210>    891
<211>    305
<212>    DNA
<213>    Ctenocephalides felis


<220>
<221>    misc_feature
<222>    (279)..(279)
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<223> n = unknown

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agcatgtgga gtgattgcat tctttatacc gaacatttat cagaagcaag tggatagaag   120

aacgagcatt gcttcatatg gaccataacc atatttccgt cgtgtgttgt gaaatgcaat   180

tatactttga gaaagtatta tcaattacaa agaaaattca gaagttgcta ctgaatcatt   240

ttctaaaaca tcgcatgaaa attaataact ctttattgnt attagattcg atgtaagata   300

tatgt   305

<210> 892
<211> 455
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (27)..(27)
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<223> n = unknown

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<222> (354)..(354)
<223> n = unknown

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tcagaaatta ctatagttaa tgacattttg tttgtgctcc ttacataaaa tacaatttta   120

tacattttaa tttttataca tattttttat atttaattgc acagatcatt tgtgtatttta   180

ttatattaat tgactacttt atgataattt gaatcctaat tagtctattc aagattgntt   240

tcctggttta agccttactt agcaatctca cttttgcatt cttcgccggg tggcgtgggt   300

atgcatcgca actccgtttt atcaaagtgc aagccatttg gacaatcata atgntttatt   360

tgccatttgt tgttaaccaa gaaacattga taatatttt tacaatctct tcgatcggaa   420

aaaacgtttt cactttgca tgcaggtctg cacga   455

<210> 893
<211> 283
<212> DNA
<213> Ctenocephalides felis

<220>
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<222> (169)..(169)
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attggagaaa tatgctctga tttattcccc tctactttac ccccagttga acaaagcgtt   120

aagaagatgc aaaggtagac aaaggagcca tacatgatgg tgtattgggn ggagggtcca   180

caagaatacc taaaattcga tctctgctac aaagaattct ttgcaggaaa gaccttaaat   240

tcttccataa atccagatga actgtggctt atggtgctgc agt   283

<210> 894
<211> 500
<212> DNA
<213> Ctenocephalides felis

<220>
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<223> n = unknown

<220>
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<222> (443)..(443)
<223> n = unknown

<220>
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<222> (473)..(473)
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<400> 894
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tcttggttaa caacaaatgg caaataaaac attatgattg tccaaatggc ttgcactttg   180

ataaaacgga gttgcgatgc atacccacgc cacccggcga agaatgcaaa agtgagattg   240

ctaagtaagg cttaaaccag gaaaacaatc ttgaatagac taattaggat tcaaattatc   300

ataaagtagt caattaatat aataaataca caaatgatct gtgcaattaa atataaaaaa   360

tatgtataaa aattaaaatg tataaaattg tattttatgt aaggagcaca aacaaaatgn   420

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cattaactat agtaatttct gantatttaa aatatataaa tatagaagcc ttntgaatca      480

aaaaaaaaaa aaaaaaaaaa                                                  500
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<210>   895
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catagttagg nggcattcg aaaacctgac ctttaccatc tttgcagaat aaagtatctt      120

gtgcagcttt cggatctggc tgatatccta caacccgcgc atgtagtttc tgccgcttac      180

agtttttccc aggttttgat gagcacatat catctaccaa aatggagcat cggaatttga      240

gtctctgcaa ttgattggtg naaatggggg ttcttgtcag cgcacaactt caagtagaac      300

aatcgtgaca aaatgttcca actgcttatt agt                                  333
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<223>   n = unknown

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aaaaatggga attgtgcatt ttatgacggg gcaatcaact tctgacgaat tctttttaca      120

catattttta gaaagatcat atacataagt taggggggca ttcgaaaacc tgcctttacc      180

atcttttgag aaaaaagtat cttgtgcagg ctttcggatc tggctgatat cctacaaccc      240

gccatgtagg ttctggcgnc ttacagtttt cccaggtttg atgagcacat atnatctacc      300

caaatggagc atcggaattg agtctctgca atgattggtg                            340
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<220>
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<220>
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<223>    n = unknown

<220>
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<220>
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<220>
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<220>
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<222>    (317)..(317)
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<400>    897
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atggnctccc tggattgtcc gtgggtttgg agtatctgnt caaggnatna tcatctaccg      120

tgcagcatac tttggattct atgacaccgc tcgtggaatg gtgccagacc caagaacacc      180
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ccattagtta taactgggcc attgcacaac ccgcacaact gtgctggatt gtgtatattc    240

attcacactt gnccgtagcg tatgatgatc aatctggacc tgccaaagat gaaatgttga    300

ccttggccgg gaacacncta agccaatttt gagaa                               335
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<210>  898
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<212>  DNA
<213>  Ctenocephalides felis


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<220>
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<220>
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<223>  n = unknown

<220>
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<223>  n = unknown

<220>
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<400>  898
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aatgcaaaag tgagattgct aagtaaggnt taaaccagga aaacaatctt gaatagacta    120

attaggattc aaattatcat aaagtagtca attaatataa taaatacacn aatgatctgt    180

gcaattaaat ataaaaaata tgtataaaaa ttaaaatgta taaattgtat tttatgtaan    240

gngcaccaac caaatgncat tactatag                                       268
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<210>  899
<211>  299
<212>  DNA
<213>  Ctenocephalides felis


<220>
<221>  misc_feature
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